DEALER CATALOG

WESTERN RADIO

# ROHNtowers

WESTERN HADIO

1415 India St., P.O. Box 790 San Diego, Calif. 92101 Phone 239-0361

## YOUR INTRODUCTION TO . .

# The Finest Line of Towers and Accessories:

## ROHN<sub>®</sub>

## INCLUDED IN THIS CATALOG:

**Economy Towers** 

**Packaged Towers** 

No. 6 Tower

No. 20 Tower

No. 25 Tower

No. 6 Crank-Up Towers

SD & HD Series Crank-Up

Towers

**Tower Trailers** 

No. 25 Fold-Over Towers

No. 45 Fold-Over Towers

Tripod Roof Towers

**Telescoping Masts** 

Vent Pipe Masts

Galvanized Mast Tubing

TV Service Tables

**Peak Roof Mounts** 

Flat Roof Mounts

Roof Mounts - Vent Mounts

Gable Mounts

**Chimney Mounts** 

Wall Mounts

**Ground Mounts** 

Drive-In Base Plates

**Hinged Base Plates** 

Concrete Base Plates

Mast Bases

Adjustable House Brackets

Universal Eave Brackets

Universal Side Arms

Side Arm Mounts

**Erection Fixtures** 

**Guying Assemblies** 

**Accessory Shelves** 

**Accessory Platforms** 

**Rotor Posts** 

**Rubber Grommets** 

**Guy Rings** 

**Mast Clamps** 

**Lightning Arrestors** 

Screw Hooks

Screw Eye

Stand-Off Straps

Stand-Offs

Ground Rods & Wire

TV Guy Wire

(Note: This is not a complete listing and is only a general source of reference. Please refer to the catalog pages for the complete line.)

Sold to

Western Radio 1415 India St. San Diego, Ca.

92101

14 3 30 X 11 0 7 8 4 1 7 14 1 7 14

Shipped to Ron, Pather 11381 10 13 Ferms Rd. El Cajon, da. 92020

Shipped via

F.O.B Reno

Terms

Unarco-Rohn

Division of Unarco Industries, Inc.

310 Quincy Street Reno, Nevada 89502 Phone 702 322 9300

Date 11/17/76

Shipping Ticket Number

Customer Order Number

Purchase Order Date 11/2/76

Our Order Number

Salesman

Quantity Shipped Quantity Quantity | Stock Number/Description Back Ordered Ordered 1 HDX-48-LB 2

XB-8

hvy dty ax tower

concrete base stubs

Unit Price

Amount

Form No. UR75-9B

Shipping Ticket Number



UNIG. | DEST. | CO | BI | RI EQUIP. NO. FREIGHT BILL NO. MAGE 7663496 111776 C 18 16 1 DC 66 420 RON PATTERSON 11381 FUERTE FARMS RD. EL CAJON CAL SHIPPER ROHN MFG DIV UNARCO NS RENO NEV "THE INTERSTATE COMMERCE COMMISSION REQUIRES COLLECTION OF THIS BILL WITHIN SEVEN DAYS, ACCEPTANCE OF COLLECT SHIP-MENTS CONSTITUTES OBLIGATION TO PAY FREIGHT CHARGES." G. B. L. NO. DESCRIPTION OF ARTICLES RATE . POS. 1 PC NX 30 INCH SECTIONS 287 BOL HOWE NOT IS 36 2913 323 AMT DUE 2913 COL SN R 10254 TOWERS/ MASTS, RADIO/ TV BILLTO RECEIVED SHIPMENT IN GOOD ORDER DATE NO OF PIECES CONSIGNEE'S SIGNATURE

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#### JOB RECEIPT

STATE OF CALIFORNIA

DEPARTMENT OF FOOD AND AGRICULTURE
DIVISION OF MEASUREMENT STANDARDS
WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

This is to Certify that the following described merchandise was weighed, measured or counted by a Public Weighmaster at Large and his signature is a recognized authority of accuracy as prescribed by the California Business and Professions Code, Division 5, Chapter 7.7.

287-2566 CONCRETE-MOBILE DIAMOND CONCRETE SUPPLY MAILING ADDRESS 6846 DEL PASO PLACE SAN DIEGO, CALIFORNIA 92120 LICENSE NO **ADDRESS** DESCRIPTION AMOUNT YARDS TIME TIME ON JOB ARR. JOB IME/CHARGES CHARGES TOTAL

DIAMOND CONCRETE SUPPLY

PUBLIC WEIGHMASTER AT LARGE BY 4647

TOTAL

PO GAPOL 2

PER HR

A 8 2 4

READING START

#### **UNITS DELIVERED**

SUBJECT TO THE FOLLOWING CONDITIONS: ADDED INGREDIENTS

Purchaser assumes full responsibility for strength, slump and quality of concrete when additional water or other material is requested on job.

WATER SIGNED FOR BY

S.A. 8-75

GALLONS OF WATER ADDED

the undersigned, will assume all espensibility to any damage restring from deliveries made inside line.

Signature

Purchaser will be allowed eight (8) minutes per cubic yard free standing and/or unloading time. Excess time will be charged for at the rate of \$\_\_\_\_\_per hour. All deliveries are made to the best of our ability and dispatch. No claims for delays in deliveries will be allowed.

Notice is hereby given in accordance with Section 1193, California Code of Civil Procedure & 4210 California Government Code "That if bills are not paid in full for labor, services, equipment or materials furnished, the improved property (described hereon) may be subject to Mechanics lien."



## QUALITY IS MORE THAN A WORD . . .

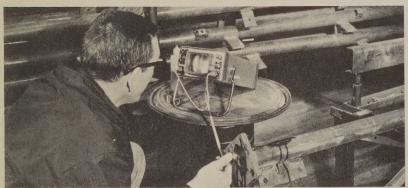
In a continuing effort to supply only the highest quality products, Rohn owns and operates 2 types of electronic and Xray equipment. The daily inspection of raw material before it goes into production

and the final inspection of the finished product assures that only the Highest Quality products carry the name . . . ROHN. .

## **INDUSTRIAL X-RAY**

This remarkable unit, due to its versatility, enables Rohn Quality Control personnel to look "inside" material before or after fabrication, all the way from small welds up to 4" solids. Permanent film records are maintained for future reference.



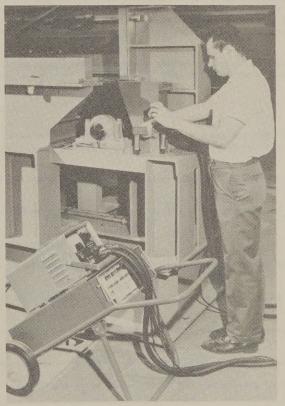


#### **ULTRASONICS**

Another method of looking "inside" raw material or fabrications is this equipment which produces a "picture" on the oscilloscope screen as the "waves" penetrate and search out imperfections. Because the results are easily read directly from the scope, this method of inspection is used daily throughout the plant. Ultrasonics are unlimited as to the thickness of material through which they can "see."

## **MAGNAFLUX**

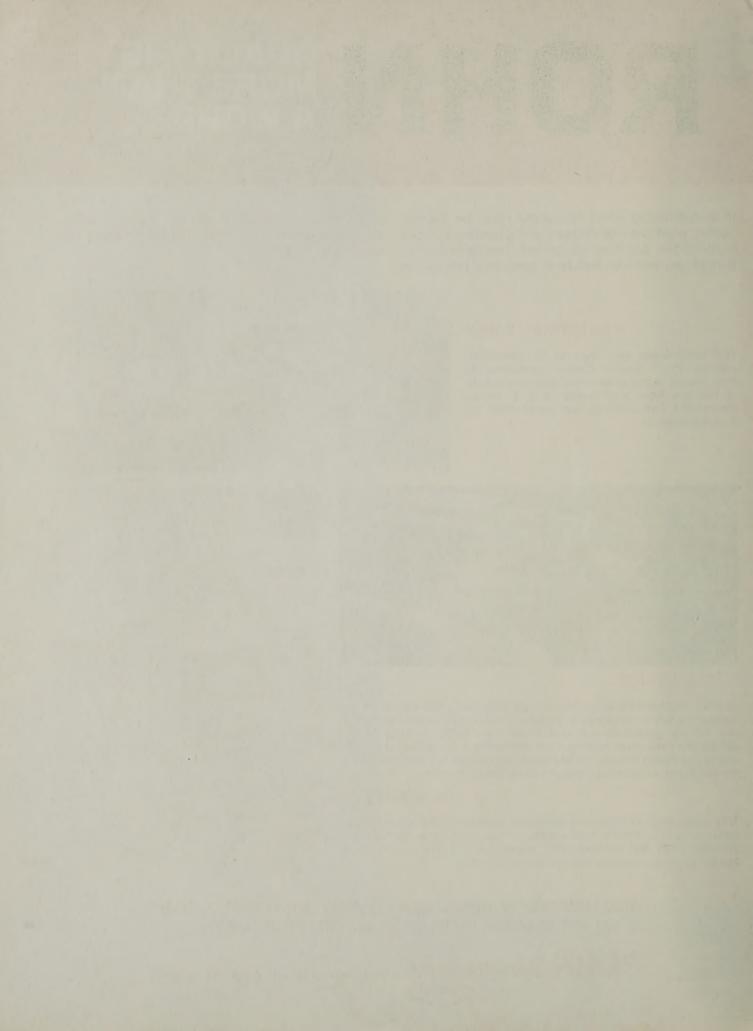
This is a dry powder-magnetic inspection process for detecting surface defects such as cracks, split seams, porosity, etc. This method produces a quick and positive visual inspection not only in weldments but for stress inspections and raw material as well.



ROHN TAKES PRIDE IN HAVING A HIGHLY EFFICIENT QUALITY CONTROL TEAM. TO YOU. THIS MEANS BETTER PRODUCTS, AND GREATER RELIABILITY.



ROHN MANUFACTURING . P.O. BOX 2000 PEORIA, ILL. 61601



#### TERMS AND CONDITIONS RELATING TO ALL SALES

- 1. All quotations, proposals, prices, or other terms are made for acceptance within 60 days, and shipment within 60 days of purchase order date, unless otherwise stated, and are subject to change without notice; however, we invite your request for an extension. Also, they are subject to Credit and Marketing Department approval, prior to acceptance.
- 2. Every effort will be made to maintain shipping schedules. However, we will not be liable for damages on account of any delays due to causes beyond our reasonable control. ROHN reserves the right to make partial shipments and to submit invoices accordingly.
- Changes or modifications to orders can be made only by written agreement executed by all parties affected thereby, which agreement shall include any price modification.
- 4. ROHN's responsibility ceases upon delivery of all shipments to the carrier. Buyer is warned against receipting for merchandise until careful inspection has been made. Buyer must make all claims and report all damages and losses to the delivering transportation company. All merchandise leaving ROHN's factory has been carefully inspected and ROHN does not assume responsibility for damages or shortages which occur in transit.
- 5. No federal, state, or local engineering costs or taxes are included in quoted prices. All quotations, proposals, prices or other terms are subject to increase without notification by the amount of any sales, excise or other tax levied or charged by any governmental agency and are subject to price adjustment in the amount expended by ROHN in compliance with any governmental action.
- 6. Orders are not subject to cancellation by buyer except by written agreement with seller. Any order cancelled, after any work has been done by ROHN, such as engineering, production, etc., will have a cancellation charge, to be determined solely at the discretion of ROHN for whatever work has been performed, with a minimum of 10% of the purchase order price. If customer so chooses, he shall have the right to receive the material already performed at time of cancellation at the quoted price.
- 7. Material received may not be returned by buyer except by written agreement with seller. In all cases, permission must be secured from ROHN prior to the returning of any goods for credit. All returned goods are subject to a minimum service charge of 20%, plus all transportation charges, and are subject to inspection by ROHN. ROHN reserves the sole right to determine amount of credit to be issued on all goods returned for credit. Only standard, currently manufactured ROHN products may be considered for return and credit.
- 8. ROHN warrants the items of its manufacture only, to be reasonably fit for the purpose for which they are manufactured and sold; provided, however, that this warranty shall be effective only if purchaser installs all material according to ROHN's recommendations and specifications and that purchaser during the warranty period shall regularly, not less than semi-annually, inspect and properly maintain all items and forward copies of inspection and maintenance reports to ROHN. Any item found unfit for its purpose within 12 months from date of delivery will be repaired or replaced free of charge, F.O.B. ROHN's plant. ROHN shall be immediately notified in writing of such unfitness. ROHN reserves the sole right to determine if any material is to be repaired or replaced free of charge or to be supplied at ROHN's standard prices. Such obligation shall be limited to parts returned for inspection, properly packed and expenses prepaid, and providing inspection shall satisfactorily indicate defects. The warranty herein made is in lieu of all other warranties and, except as expressly stated herein, ROHN does not make and there are no warranties or obligations of any kind or nature whatsoever either express or implied including, but not restricted to, warranty or obligations as to design, material, workmanship or manufacture or as to the use of the items covered hereby. ROHN shall not under any circumstances be liable to third persons for any claims or damages including direct, special, indirect or consequential damages for any reason. The buyer agrees that it will hold and save ROHN harmless from any such claims or damages and shall indemnify ROHN for any expense, loss or damage in connection therewith.

The above Warranty applies only to items manufactured by ROHN. Items not manufactured by ROHN are warranted and guaranteed only to the extent and in the manner warranted and guaranteed to ROHN by the manufacturer of such items and then only to the extent ROHN is liable to enforce such warranty or guaranty.

Obstruction lighting equipment carries no warranty or guaranty of any kind.

The above sets forth the only warranty made by ROHN in connection with items manufactured or sold by it, and any provisions in any proposals, specifications, advertising or other provisions hereof, are merely descriptive and are not to be construed as warranties made by ROHN.

- 9. ROHN reserves the right to change or modify the design and construction of any product manufactured by ROHN and to substitute material equal to or superior to that originally specified.
- 10. No proposal, order, quotation or acceptance may be changed or varied by verbal agreement, and all orders are accepted only under the provisions set forth herein.
- 11. Acceptance of all orders, quotations and proposals must be in writing and approved by ROHN.
- 12. If outside source inspection is required prior to shipment of an order, 1% of material net price is chargeable, with \$50.00 as a minimum.
- 13. Any welding inspection required by customer or customer's specifications must be done at ROHN's plant prior to shipment of material from ROHN's plant.
- 14. No credits will be issued for any reason against a purchase order whose billing is more than 90 days old. Customer corrections or complaints must be made within this period of time.
- 15. Standard catalog tower prices do not include special drawings or stress analyses. If any is required, there will be a charge.
- 16. ROHN at all times reserves the right to take pictures of any or all of its products after installation for advertising purposes, except those which are under classified governmental control.
- 17. On any request made to ship merchandise prepaid and to bill freight to the customer on products which are sold F.O.B. ROHN's plant, a charge of \$5.00, plus 1% of the freight invoice, will be billed to the customer for this service.
- 18. A finance charge of 12% per month will be billed on all accounts not paid within 30 days of invoice date.
- 19. Minimum total net worth of merchandise which can be ordered is \$20.00. Any orders placed for less will be billed at \$20.00.
- 20. Any purchase order ready for shipment, which is placed under a "hold order" by the customer for any reason, will be subject to a 1% per month storage charge from the date of the hold until the shipment is released.

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#### ROHN

## INSTALLATION INFORMATION BRACKETED #25 and #45 TOWERS, NON-GUYED

BASE: The size of the concrete base for a 50' #25 tower, with a house bracket 12' aboveground, is 3' deep by 18" square. The base for a bracketed 50' #45 tower is 3' deep by 2' square. For cases of loose soil, etc., the base must be larger. Spread about 2" of gravel in bottom of hole prior to setting base section. After setting base section on gravel, being sure correct end is up, fill another 3" with gravel around legs of base. This allows the tower base legs to extend the required amount below the base of the concrete, thus allowing for drainage of moisture into the gravel. Level the base section as much as possible prior to pouring concrete, and repeat the process to make the tower plumb after pouring concrete. Do not pull base up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

HEIGHT OF TOWER & BRACKET USES: House brackets must be used and should be mounted at least 12' above ground to be effective. The #45 tower should not extend more than 45' above a house bracket and a #25 tower should not extend more than 33' above a house bracket. To secure the house bracket, use lag screws no smaller than 3/8" x 2". A special effort should be made to locate the house bracket such that the lag screws go through the siding into a stud. Brackets fastened to the siding only will not hold in a high wind. Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.

BOLTS: Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6 1/2" length. If bolts cannot be pushed through the holes with the heel of a hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

MISCELLANEOUS: Installation is greatly hastened and simplified by the use of an erection fixture. Do not use it to lift more than the weight of one tower section at a time. If the antenna is to be fixed and a set screw used in the mast housing, or if a rotator is to be mounted on a short length of mast above the tower top section, install a TB-50 tower bushing at bottom of the mast housing to center the mast in the mast housing. These bushings are "peened" in place. If the rotator is to be mounted inside the top section of tower, do not install a TB-50 tower bushing at bottom of the mast housing.

All information is based upon average antennas, with not more than 2 square feet of area in a 20 PSF (70 MPH) wind load and a safety factor, with antenna installed at tower apex.

#### ROHN

## INSTALLATION INFORMATION BRACKETED #20 TOWER, NON-GUYED

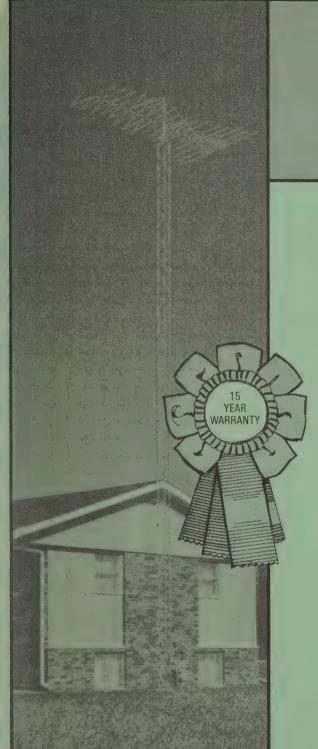
BASE: The size of the concrete base for a 40' #20 tower, with a house bracket 12' aboveground, is 3' deep by 18" square. For cases of loose soil, etc., the base must be larger. Spread about 2" of gravel in bottom of hole prior to setting base section. After setting base section on gravel, being sure correct end is up, fill another 3" with gravel around legs of base. This allows the tower base legs to extend the required amount below the base of the concrete, thus allowing for drainage of moisture into the gravel. Level the base section as much as possible prior to pouring concrete, and repeat the process to make the tower plumb after pouring concrete. Do not pull base up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

HEIGHT OF TOWER & BRACKET USES: House brackets must be used and should be mounted at least 12' aboveground to be effective. The #20 tower should not extend more than 28' above a house bracket. To secure the house bracket, use lag screws no smaller than 3/8" x 2". A special effort should be made to locate the house bracket such that the lag screws go through the siding into a stud. Brackets fastened to the siding only will not hold in a high wind. Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.

BOLTS: Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6 1/2" length. If bolts cannot be pushed through the holes with the heel of a hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

MISCELLANECUS: Installation is greatly hastened and simplified by the use of an erection fixture. Do not use it to lift more than the weight of one tower section at a time. If the antenna is to be fixed and a set screw used in the mast housing, or if a rotator is to be mounted on a short length of mast above the tower top section, install a TB-50 tower bushing at bottom of the mast housing to center the mast in the mast housing. These bushings are "peened" in place. If the rotator is to be mounted inside the top section of tower, do not install a TB-50 tower bushing at bottom of the mast housing.

All information is based upon average antennas, with not more than 2 square feet of area in a 20 PSF (70 MPH) wind load and a safety factor, with antenna installed at tower apex.



## Shown above is a typical installation with concrete base and house bracket.

# Model No. 20G HOME TV TOWER

## THE IDEAL TOWER FOR MANY INSTALLATIONS

Designed and engineered for 2 sq. ft. of antenna surface, this tower will handle most home TV installations. If larger antenna is to be used, step up to the heavier No. 25G tower.

#### **FINISH**

The No. 20G tower is **completely** Hot Dip Galvanized — **after fabrication**.

#### **15 YEAR WARRANTY**

Rohn backs this finish with the industries' FIRST and ONLY 15 yr. warranty\* against red rust under normal atmospheric conditions!

#### **PROVEN DESIGN**

\*Warranty does not include hardware.

Built on a 12-1/2" equilateral triangle design, the high strength tubular legs are solidly joined by **solid steel** "zig-zag" cross members electrically welded and fabricated in Rohn developed production equipment. Each 10' tower section is complete with nuts and bolts included inside one leg.

#### SUPERIOR STRENGTH

This is foremost at Rohn and is achieved by setting rigid high standards for raw materials and maintaining those standards thru the finished tower.

When quality materials are combined with precision manufacture and proven design, the result is a better product.

Accessories for No. 20G tower are same as for No. 25G tower — completely interchangeable!

## **SELF-SUPPORTING HEIGHTS FOR NO. 20G TOWER**

	ractor of 5	alety — 1.5	racioi di S	a101y - 2.3
WIND LOAD	No Ant.	2 Ft. <sup>2</sup>	No Ant.	2 Ft. <sup>2</sup>
10.0 PSF (50 MPH)	64.0'	56.5	49.9	42.6'
14.4 PSF (60 MPH)	53.4	46.0'	41.6'	34.5
20.0 PSF (70.7 MPH)	45.3	38.1'	35.4	28.3

## #20 TOWER ECONOMY HOME TV TOWER

PART NO.		LIST	SUGG'D.  DEALER	WT.
20G 20AG	10° tower section 9° top section	28.50 30.85	19.95 21.60	30 26
BPC20G	Concrete base plate	14.30	10.00	13
3/4"x12" PP	Pier pin (for RPC2OC - 1 required)	2.50	1.75	1

All #25 accessories fit above tower.

The #20 tower is not recommended for commercial, ham, or guyed installations.

NOTE: The price on #20 sections will be \$3.25 higher on shipments to the following states: Ariz., Calif., Idaho, Mont., Nev., Ore., Utah, Wash., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

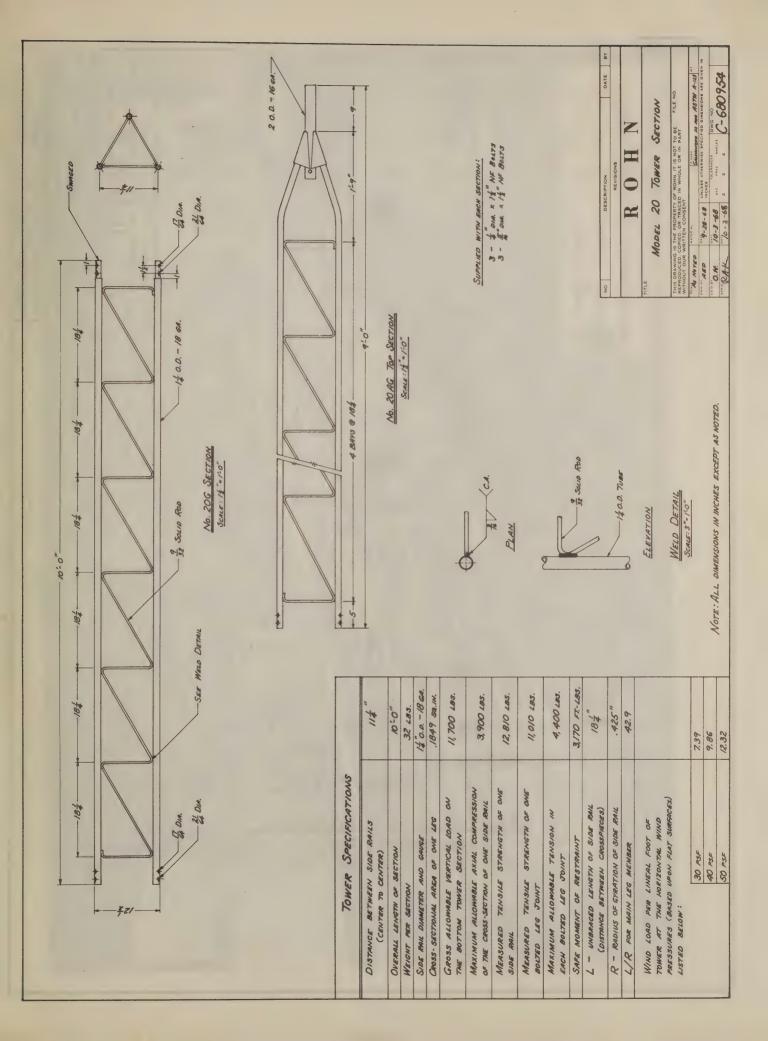
F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA

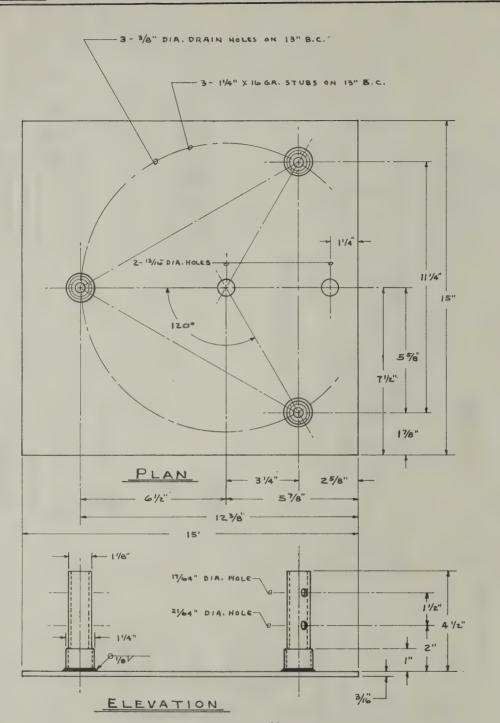
PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

<sup>1 1/4&</sup>quot; legs - 12 1/2" triangle.

<sup>&</sup>quot;Hot-dipped" galvanized after fabrication.

<sup>&</sup>quot;Zig-Zag" construction with horizontal member on all three faces for climbing.





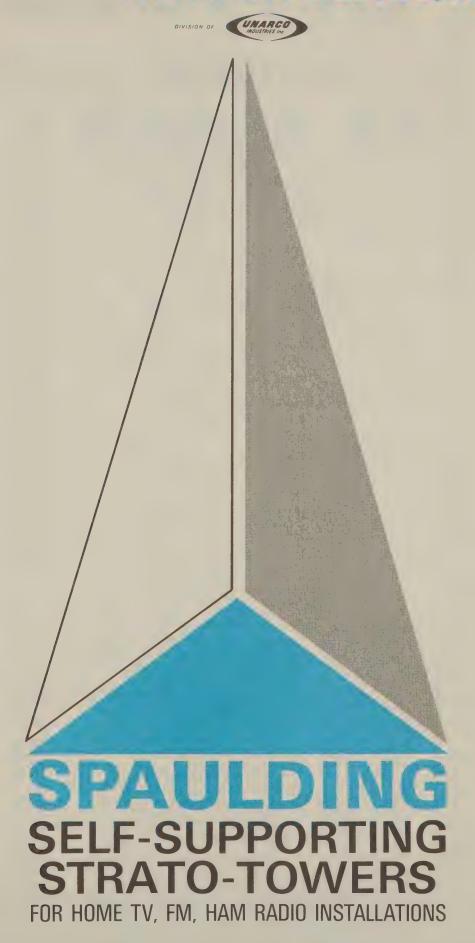
NOTE: AFTER GALVANIZING, CHECK ALL HOLES AND OPEN IF PLUGGED.

BASE PLATE FOR CONCRETE PIER
PART No. - BPC-20 G





## ROHN-SPAULDING, INC.



## STANDARD

# AX SERIES

## FOR CEMENT INSTALLATION

All steel — heavily galvanized for long life.\*

All riveted construction — no welds to rust.\*

Compact Nested 48' Tower Package — Takes only 2 sq. ft. floor space.\*

Complete tower — with base stubs, hardware, mast and mast kit. Available to 64'

Greater width and weight at bottom — for greatest strength.\*

Easy to erect—the higher you go, the lighter the section.\*

Wind resistance decreases with height.\*

Rotators easily installed.\*

Tower is beautifully styled — adds to your home's appearance.\*

"X" Brace design gives greater strength — braces riveted in center as well as at ends.\*

New beaded channel leg design reduces amount of twisting.\*

No guy wires required—
tower is self-supporting.
Tower "Package"— compact
shipping and storage method.
Includes all necessary
parts and hardware.\*

U.S. Patent No. 2806560

8' Sections

\*These features common to all Spaulding Strato Towers.

## X-CB Series

## CYLINDER BASE MODEL

Available to 48'

Immediate base setting.

No concrete required.

Easy to install.

Self-aligning hinge base.

Tower can be assembled on the ground and hinged up (see insert) or built vertically, section upon section.

Galvanized tower and base.

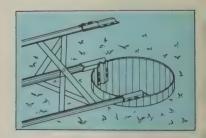
All riveted construction.

Beautiful design.

Extreme high strength less wind resistance at top of tower due to design.

Beaded Channel Leg (will not rust inside like painted tubular type towers.)

Strato Towers also available with hinged concrete base, or screw anchor base.



# STRATO-TOWERS FOR EVERY HAM AND HOME TV INSTALLATION

Strong
Durable and
Dependable

## HDX Ham Series

## HEAVY DUTY HAM TOWER

Available to 48'

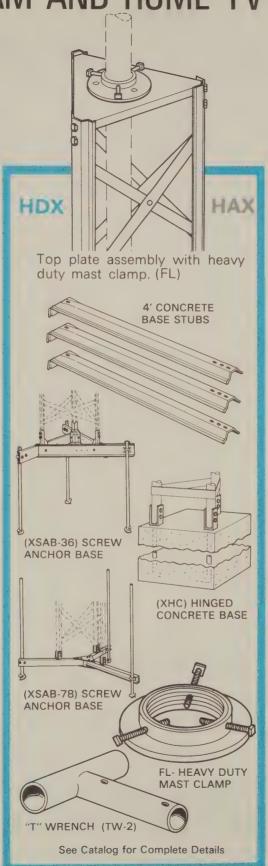
Can be used with concrete base stubs, screw anchor base, or hinged concrete base.

Package complete with heavy duty mast clamp, rotor plate and top plate assembly as shown.

Rotators easily adapted.

Physical properties and specification available on request.

Due to heavier designing this Ham tower will withstand greater loading than standard towers or HAX Series. Top of HDX Series tower is 12-3/4" across one side of triangle.



## Ham Series Towers

FOR STANDARD HAM INSTALLATIONS

Available to 56'

Can be used with Concrete Base Stubs Screw Anchor Base, or Hinged Concrete Base.

Package complete with heavy duty mast clamp, rotor plate and top plate assembly as shown.

Rotators easily adapted.

Physical properties and specification available on request.

This Ham tower will hold larger antennas than standard AX series towers. Top of HAX tower is 10-3/16" across one side of triangle.

**SPAULDING** STRATO-TOWERS

**SELF-SUPPORTING** 

## **EP** Series

## FOR BRACKETED **INSTALLATIONS**

Check this for price -Economy Package Tower.

An excellent tower for the economy minded person.

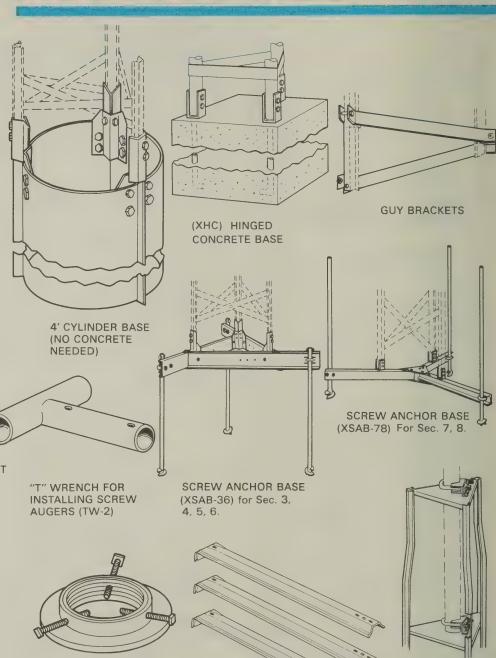
Made from the same quality materials as the standard AX series towers.

Tower size the same as the top two sections of the standard AX Series.

Higher quality than most competitive towers.

EP towers can be ground mounted with base plate furnished with the tower or roof mounted with the adjustable hinged roof mount (roof mount is extra accessory).

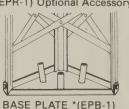
## **TOWER ACCESSORIES**



ADJUSTABLE HOUSE BRACKET \*(EPH-1) 4" to 18",

(EPH-2) 8" to 24"

UNIVERSAL ROOF MOUNT (EPR-1) Optional Accessory



3' Drive Pads \*(EPDR-1) \*(M-8) 8' Mast

\*Included with all EP Towers

## ROHN-SPAULDING, INC.

4' CONCRETE

**BASE STUBS** 

(AX-MK2) MAST

HARDWARE KIT

(FL)-HEAVY DUTY

MAST CLAMP



P.O. Box 365 Frankfort, Indiana 46041 Peoria, III., Birmingham, Ala., Frankfort, Ind.

orm No. 4633 R771

PART NO.		LIST	SUGG'D. DEALER	WT.
	8 AX SECTIONS	entertainmentaine dalainmen	иг эт э д Ловенич от э у - на учини Мовей Мари о и во	Bet finding you upon you
AX-1	Standard offset section	14.10	9.85	18
AX-1A	Offset top section w/XT-1, XR-1, AX-MK2	25.70	18.00	20
AXS-1	Straight section	14.45	10.10	18½
AX-2	Standard offset section	14.80	10.35	19
AX-2A	Offset top section w/XT-2, XR-2	21.35	14.95	22
AXS-2	Straight section	15.30	10.70	19½
AX-3	Standard offset section	18.80	13.15	24
AX-3A	Offset top section w/XT-3, XR-3	26.65	18.65	28
AXS-3	Straight section	21.00	14.70	27
AX-4	Standard offset section	21.95	15.35	28
AXS-4	Straight section	22.65	15.85	29
AX-5	Standard offset section	29.70	20.80	38
AXS-5	Straight section	31.20	21.85	40
AX-6	Standard offset section	32.65	22.85	42
AXS-6	Straight section	34.30	24.00	44
AX-7	Standard offset section	53.60	37.50	59
AXS-7	Straight section	56.35	39.45	62
AX-8	Standard offset section	59.00	41.30	65
AXS-8	Straight section	61.85	43.30	68
	AX ACCESSORIES			
AX-MK2	Mast hardware kit w/rotor post for top & rotor plate	6.60	4.60	2
FL	Heavy duty mast clamp	5.45	3.80	3
EF-AX	12' aluminum erection fixture for all AX sections	96.60	6 <b>7.</b> 60	22
H-AX	Head only for EF-AX	51.10	35.75	12
P-25-45	Pole only for EF-AX (or EF-25-45) *	51.10	35.75	10
USM	Universal side mount (28" - 40") w/4', 1½" OD mast (fits Sects. 1	15.70	11.00	14
	thru 6 - recommend tower be guyed			
	when using this mount)			
	TOP AND ROTOR PLA	TES		
XT-1	Top plate for Sect. AX-1 (8")	2.60	1.80	1
XT-2	Top plate for Sect. AX-2 (10 3/16")	3.35	2.35	1½
XT-3	Top plate for Sect. AX-3 (12 3/4")	4.00	2.80	2
XR-1	Rotor plate for Sect. 1 (10 3/16")	2.60	1.80	1
XR-2	Rotor plate for Sect. 2 (12 3/4")	3.35	2.35	$\frac{1}{2}$
XR-3	Rotor plate for Sect. 3 (15")	4.00	2.80	2

Nuts and bolts included in section prices.

<sup>\*</sup> Same pole is used in both the Spaulding and Rohn erection fixtures.

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## AX ACCESSORIES

PART NO.		LIST	SUGG'D.  DEALER	WT.
	4° CONCRETE BASE STUBS (Tower Height Not to Exc		_	
XB-346	Stubs for Sect. 3, 4, 6 (3 3/8" x 14 ga.)	12.35	8.65	10
XB-5	Stubs for Sect. 5) (3 9/16" x 14 ga.)	12.35	8.65	11
XB-7	Stubs for Sect. 7 (4 1/2" x 12 ga.)	15.70	11.00	20
XB-8	Stubs for Sect. 8 (4 1/4" x 12 ga.)	15.70	11.00	18
	SELF-SUPPORTING 4' CYLINDER BASE (Fo With Mounting Hard (Tower Height Not to Exc	ware		
XCB-2	For use w/Sect. 2	45.15	31.60	58
XCB-3	For use w/sect. 3	47.45	33.20	61
XCB-4	For use w/Sect. 4	56.15	39.30	72
XCB-5	For use w/Sect. 5	62.85	44.00	81
XCB-6	For use w/Sect. 6	72.45	50.70	93
СВНК-25	Cylinder base hardware kit (Fits Sect. 2, 3, 4, 5)	19.70	13.80	8
СВНК-6	Cylinder base hardware kit- (Fits Sect. 6)	19.70	13.80	8
	SELF-SUPPORTING SCREW A With Mounting Hard (Tower Height Not to Exc	ware		
XSAB-36 XSAB-78	For use w/Sect. 3, 4, 5, 6 For use w/Sect. 7, 8	54.20 132.10	37.95 92.45	69 <b>1</b> 67
TW-2	"T" wrench for installing screw augers	10.70	7.50	8
	SELF-SUPPORTING HINGED CONCRETE B (Tower Height Not to Exc			
XHC	Fits all sections	25.85	18.10	25
	GUY BRACKETS			
GS-12 GS-45	Guy bracket for Sect. 1, 2 Guy bracket for Sect. 4, 5	6.70 13.50	4.70 9.45	3½ 6
	MASTS			
14.0	01	2 (0	1 00	<b>C1</b>
M-8 M-4	8' mast (1½") 4' mast (1½")	2.60 1.60		6½
M-4	4 mast (14 )	1.00	1.10	3

## SELF-SUPPORTING HOME TV AX TOWERS

PART NO.	<u>LIST</u>	SUGG'D. DEALER	WT.
	SELF-SUPPORTING AX TOWER WITH (XB) 4° CONCRETE BASE STUBS & (M-8)	8 MAST	
AX-24	70.45	49.30	73
AX-32	91.15	63.80	101
AX-40	119.30	83.50	139
AX-48	150.45	105.30	181
AX-56	204.80	143.35	250
AX-64	260.95	182.65	315
	SELF-SUPPORTING AX TOWER WITH (XCB) 4' CYLINDER BASE & (M-8) 8	* MAST	
X-16-CB	84.30	59.00	104
X-24-CB	104.45	73.10	131
X-32-CB	133.30	93.30	170
X-40-CB	168.15	117.70	217
X-48-CB	208.15	145.70	271

NOTE: The price on AX & X-CB complete towers will be 10% higher on shipments to the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

## SELF-SUPPORTING HOME TV AX TOWERS

PART NO.	<u>LIST</u>	SUGG'D. DEALER	$\overline{W}$ T.
	SELF-SUPPORTING AX TOWER WITH (XSAB) SCREW ANCHOR BASE & (M-8)	8' MAST	
X-24-SAB	110.85	<b>77.</b> 60	132
X-32-SAB	131.60	92.10	160
X-40-SAB	159.70	111.80	198
X-48-SAB	190.85	133.60	240
X-56-SAB	315.95	221.15	397
X-64-SAB	372.10	260.45	462
	SELF-SUPPORTING AX TOWER WITH (XHC) HINGED CONCRETE BASE & (M-8)	8° MAST_	
X-24-HC	83.85	58.70	88
х-32-нс	104.60	73.20	, <b>11</b> 6
х-40-нс	132.80	92.95	154
х-48-нс	163.85	114.70	196
X-56-HC	214.95	150.45	255
X-64-HC	271.00	189.70	320

NOTE: The price on X-SAB & X-HC complete towers will be 10% higher on shipments to the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

## HAM SELF-SUPPORTING AX TOWERS HAX SERIES

PART NO.	LIST	SUGG'D. DEALER	WT.
	HAM SELF-SUPPORTING AX TOWER WITH (XB) 4' CONCRETE BASE STUB	<u>s</u>	
HAX-32	103.35	72.35	122
HAX-40	134.50	94.15	164
HAX-48	188.80	132.15	232
HAX-56	244.95	171.45	297
	HAM SELF-SUPPORTING AX TOWER WITH (XSAB) SCREW ANCHOR BASE		
HAX-32-SAB	143.80	100.65	180
HAX-40-SAB	174.95	122.45	222
HAX-48-SAB	299.95	209.95	378
HAX-56-SAB	356.00	249.20	443
	HAM SELF-SUPPORTING AX TOWER WITH (XHC) HINGED CONCRETE BASE	E_	
HAX-32-HC	116.85	81.80	137
нах-40-нс	148.00	103.60	179
нах-48-нс	198.85	139.20	237
HAX-56-HC	255.00	178.50	302

NOTE: The price on HAX, HAX-SAB & HAX-HC complete towers will be 10% higher on shipments to the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

## HAM SELF-SUPPORTING AX TOWERS HDX SERIES

PART NO.	LIST	SUGG'D. DEALER	WT.
	HEAVY DUTY HAM SELF-SUPPORTING AX WITH (XB) 4° CONCRETE BASE STUB		
HDX-32	121.60	85.10	147
HDX-40	175.95	123.15	214
HDX-48	232.10	162.45	279
	HEAVY DUTY HAM SELF-SUPPORTING AX	TOLED	
	WITH (XSAB) SCREW ANCHOR BASE		•
HDX-32-SAB	161.95	113.35	205
HDX-40-SAB	287.10	200.95	360
HDX-48-SAB	343.15	240.20	426
	HEAVY DUTY HAM SELF-SUPPORTING AX WITH (XHC) HINGED CONCRETE BAS		
HDX-32-HC	135.00	94.50	162
HDX-40-HC	186.00	130.20	229
HDX-48-HC	242.15	169.50	284

NOTE: The price on HDX, HDX-SAB & HDX-HC complete towers will be 10% higher on shipments to the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

## BRACKETED HOME TV AX TOWERS (EP SERIES)

PART NO.	,	LIST	SUGG'D.  DEALER	WT.
	EP TOWER WITH DRIVE RODS, BASE PLATE,	8. MAST & I	HOUSE BRACKET	
EP-2	16' tower	56.15	39.30	62
EP-3	24' tower	69.80	48.85	80
EP-4	32¹ tower	84.30	59.00	99
EP-5	40° tower	98.80	69.15	118
	EP ACCESSORIES	<u> </u>		
EPR-1	Universal roof mount	7.85	5.50	2
EPB-1	Base plate	4.00	2.80	2
EPDR-1	3' drive rods (set of 3)	4.00	2.80	7
M-8	8' mast (1½")	2.60	1.80	6½
EP-Hl	Adjustable house bracket - 4" to 18" (Fits Sects. 1, 2, 3, 4)	7.85	<b>5.</b> 50	5½
ЕР-Н2	Adjustable house bracket - 8" to 24"  (Fits Sects. 1, 2, 3, 4)	10.45	7.30	6½
GS-12	Guy bracket (Fits Sects. 1, 2)	6.70	4.70	3½

NOTE: The price on EP complete towers will be 10% higher on shipments to the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

## ROOF MOUNT TOWERS

RM-4 RM-4-8	tower w/	/8 <b>1</b>	mast	D	ISCONTINUED
RM-8 RM-8-8	tower w/	/81	mast		

ORDER NO.		SUGG'D. DEALER	ORDER NO.		SUGG'D. DEALER
	PRE-GALVANIZED MAST	TUBING	201005PHS	3.60	2.15
	1½" Tubing - Expand Pre-Galvanize (05PLX)		160505PHS	2,65	1.60
161005 PLX 181005 PLX 201005 PLX 160505 PLX 180505 PLX 200505 PLX	DISCONTINUED	_	180505PHS	2.45	1.46
ezn eko dek 100- 400	gan las qua gas tan tan un un un sen en	see tab ten co	200505PHS	2.00	1.21
	1½" Tubing - Expande Pre-Galvanized (06PLX)				
161006PLX	6.15	3.70		1½" Tubing - Plain Pre-Galvanized (05PH)	End
			161005РН	4.65	2.80
	1½" Tubing - Swaged Pre-Galvanized (05PHS)				
161005PHS	5.00	3.00	181005РН	4.05	2.43
181005PHS		2.63		1½" Tubing - Plain Pre-Galvanized (06PH)	End
	•		161006РН	5.50	3.31

#### SPAULDING X-CB TOWER

Tools for digging hole - spade, shovel, (telegraph spoon and shovel helpful but not necessary).

Tools for tower assembly -1/2" drive socket ratchet, 1/2" box open end, 3/4" box open end, 3/4" socket, 7/16" box open end, 7/16" socket 9/16" box open end, 9/16" socket, 2" x 4" x 6' board for tamping and hammer.

- Assemble base by placing the three (3) curved pieces so they form cylinder (A) and bolt together (1/4" bolts). 1/2" (B) holes to be placed at top of cylinder.
- 2. To attach the W plate (C) (3 furnished), place 1/2" bolt through the holes provided in the cylinder, then place large "star" washer on the bolt, now put the W plate (C) on the bolt and then the nut, tighten snugly. Special NOTE: The large washer should be between the W plate and cylinder when installation is completed.
- 3. Attach leg collars (D) (3 furnished) to W plates by inserting 1/2" bolts through W plate and leg collar -- two bolts per leg collar. Make certain the W slot in leg collar is in up position (see photo).
- 4. Place cylinder in the position the tower is to occupy. Mark off a circle approximately 2 to 3 inches larger than the cylinder.
- 5. Dig hole approximately four feet deep with the diameter of the previous mark.
- 6. Drop cylinder (A) into the hole, and attach bottom section of tower (E) to base by placing inside leg collar (D) and bolting with the two 1/2" bolts through the leg collar and leg. This is necessary to avoid distortion of the cylinder when tamping dirt inside and outside.

(B)

- 7. With cylinder as vertical as possible by sight, fill and tamp dirt inside and outside of base. Tamping should be done after every 6 or 8 inches of fill.
- 8. Plumb tower section by placing level on outside of each leg, adjustment is made by loosening 1/2" W plate cylinder attaching bolts and adjusting W plate (C) until tower is plumb.
- 9. Remove the two 1/2" bolts (in bottom of W plate (C) ) on the side opposite the pivoting direction and the two 1/2" bolts on top back side of each remaining attached W plate, (see photo). The tower section is then free to be lowered to the ground.
- NOTE: When raising the tower be careful not to bind the two leg collars (that are acting as a hinge) on the W plates, if this is done, they will be distorted and will probably need replacing. This can be avoided by having a man at this point who can slip a screw driver between the leg collar and W plate to allow them to pass and not bind.



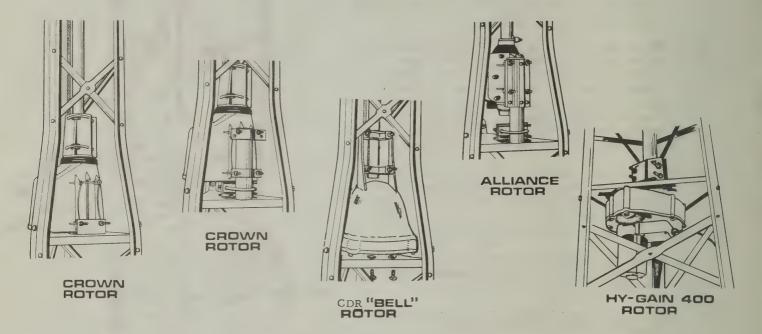
IMPORTANT

NOTE: The following procedure should be used when bolting tower sections together. Insert bolt through holes of the two sections. Place a lockwasher on the bolt and run the nut on. Only one lockwasher is required on each bolt and it is placed under the nut. Tighten the nut securely, but be careful not to strip the threads.



#### INSTALLING MAST

- 1. Two U-bolt assemblies with "L" brackets are supplied for installing the mast. These "L" brackets are bolted through the slotted holes on each plate with the short leg of the "L" bracket toward the outside of the tower.
- 2. Place the mast between the "U" bolt and "V" clamp, then tighten down with "U" bolt. This secures the mast.
- 3. Adjustments to make the mast vertical may be made by moving the "L" brackets in the slotted holes.
- 4. A horizontal step is included in the top section to make it more comfortable for installer when working on mast, rotator, or antennas.



## INSTALLING ROTATORS

- •1. Any make of rotator can be installed inside the top tower section for a neat appearance and, also, to make use of the mast bearing on the tower top plate. A short piece of tubing is furnished with each tower and can be used as a thrust bearing (for 1-1/4" mast) with the normal mast clamp on the top plate. The CDR "B" rotator can be installed by removing the base part and using four 1/4" x 1" bolts running up through the four holes in the rotor plate and into rotator. It is desirable to place 3/8" nuts to act as spacers between the rotor plate and the rotor. This will prevent the terminals of the rotor and rotor wire from shorting on the rotor plate.
- 2. An 8" piece of tubing is furnished with each tower. It can be installed into the clamp ("V" clamp and "L" shaped brackets <u>furnished for offset rotor installation only</u>) for the Alliance rotor and other offset rotors. It is necessary to reverse the clamp assembly (to face the outside of the tower), opposite that of installing a standard mast to the rotor plate. Crown rotators can be mounted directly to the "L" shaped bracket as shown or to the 8" mast as described above. A short piece of tubing is furnished with each tower and can be used as a thrust bearing (for 1-1/4" mast) with the normal mast clamp on the top plate.
- 3. The new Hy-Gain Model 400 rotator is mounted beneath the rotor plate (as pictured above). It will be necessary to increase the 1/4" holes in the rotor plate to 3/8" holes to use the 3/8" bolts furnished with this rotator. A short piece of tubing is furnished with each tower and can be used as a thrust bearing (for 1-1/4" mast) with the normal mast clamp on the top plate.

## ROHN-SPAULDING, INC.

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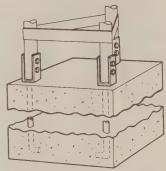
## INSTRUCTIONS FOR ROHN-SPAULDING'S XHC HINGED BASE FOR CONCRETE

Dig a hole 3 ft. square at the top, 4 ft. square at the bottom and 4 ft. deep.

Bolt the 1-1/2" water pipe adapters to the tower legs at the bottom section in such a way that the tower is permitted to hinge. (NOTE: two of these pipe adapters are drilled 15 degrees off of center on opposing sides, thus forming a hinge action when properly installed. The third adapter is drilled with holes 180 degrees from each other and this adapter forms the lock side of the hinge.)

Next place a nut and then a lock washer on each of the bolt hooks. After this is done, place the U adapter bracket next to the above lock washer, following this with the flat washer and the second nut.

Then bolt the adapter bracket assembly to the 1-1/2" adapters on the tower. After being certain that the tower will hinge from two legs, (see sketch) start to fill the hole with cement. As the cement is nearing the top of the hole, imbed the bolt hooks (attached to the tower section) into the cement. They should be deep enough to allow the threaded area only to extend above the top of the cement pier when it is completed. Finish filling the hole.



(XHC) HINGED CONCRETE BASE

Note: If the bolts tend to sink into the cement deeper than the threaded area, it will be necessary for you to "crib up" the section by placing 2" x 4" boards under the cross braces of the tower section (extending to the outside of the pier) and blocking up under them to relieve the weight of the section until the cement has set. Be sure the cement is solid around the bolt.

When the cement is thoroughly dry and the bolts are firm, the lower section is leveled by adjusting the nuts on the bolt hooks.

When the tower is level, these nuts must be extremely tight.

To hinge the tower, remove the bolt from the lock side of the tower hinge, and hinge the section over in order that the rest of the tower assembly may be completed.

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Peoria, III., Birmingham, Ala., Frankfort, Ind.

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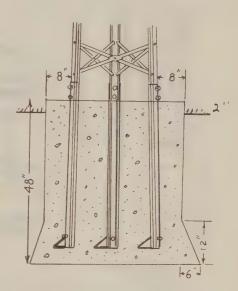
Oct. 1, 1970

### BREAKING DOWN BUNDLE

- 1. Remove the 8 ft. mast, the three 4 ft. base stubs, and the package of nuts, bolts, washers and stand-offs.
- 2. Lay the bundle on its side and remove tower sections. Start with AX-lA section (smallest section) and remove by pulling out with quick firm jerks. It is not necessary nor desirable to pry tower sections out with tools.
- 3. Inspect all tower sections on delivery to make sure there are no loose or broken rivets caused by transport mishandling. If a rivet is broken or loose, it should be replaced by a snug-fitting machine bolt and nut, securely tightened.

### SETTING BASE IN CONCRETE

- 1. We recommend that a square hole be dug 4 ft. deep and 8 inches wider at the top on each side than the width of the base section of the tower. This hole should have vertical sides until the last foot and then be "belled" out on all sides about 6 inches, as in the illustration at the right.
- 2. Fasten the 4 ft. base stubs to the tower base section.
- 3. Place the bottom tower section with base stubs attached into the hole and hold in a vertical position while concrete is poured. Level the concrete at least 2" above the ground. (It may be necessary to make a form for this.) This will allow drainage. You may plumb the tower with either a plumb-bob or plumb level. Plumbing with plumb level is done on the outside of the legs.



4. Here is a table of approximate base widths at ground level and volume of bases for installers who use "Ready Mixed" concrete.

Width	in	In.	
Cubic	Yds		1

AX-24	AX-32	AX-40	AX-48	AX-56	AX-64
33"	36"	38"	41"	43"	46"
1.18	1.35	1.54	1.80	2.10	2.30

5. NOTE: If the tower is being placed in loose soil, be sure to check with a local building contractor for advice on installing a deeper or larger base. This tower is no stronger than the base.

### ERECTING TOWER

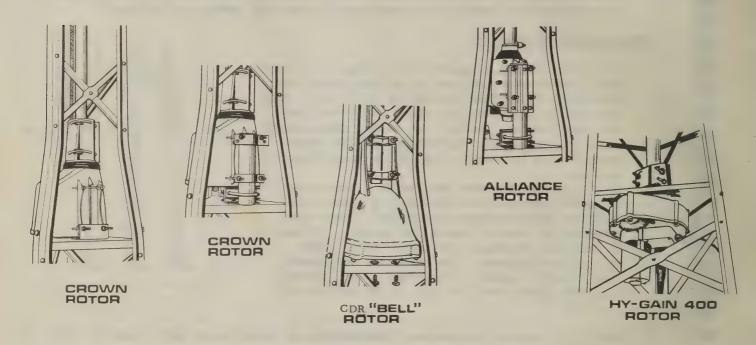
- 1. After the concrete is suitably hard, the tower is ready to be erected.
- 2. The tower may be installed by climbing and assembling sections vertically. Each higher section slides inside previous one and is located on the rivet stop. (This is used to prevent the tower section from slipping too far down.) Proceed by bolting together.

IMPORTANT NOTE: The following procedure should be used when bolting tower sections together. Insert bolt through holes of the two sections. Place a lockwasher on the bolt and run the nut on. Only one lockwasher is required on each bolt and it is placed under the nut. Tighten the nut securely, but be careful not to strip the threads.

NOTE: 1/4" dia. x 1/2" bolts are used on AX-1 and AX-2, and the top of AX-3 sections. 1/2" dia. x 3/4" bolts are used on the bottom of the AX-3, and on all sections AX-4 to AX-8 (AX-8 is the largest section). All bolts and nuts are specially heat treated.

### INSTALLING MAST

- 1. Two U-bolt assemblies with "L" brackets are supplied for installing the mast. These "L" brackets are bolted through the slotted holes on each plate with the short leg of the "L" bracket toward the outside of the tower.
- 2. Place the mast between the "U" bolt and "V" clamp, then tighten down with "U" bolt. This secures the mast.
- 3. Adjustments to make the mast vertical may be made by moving the "L" brackets in the slotted holes.
- 4. A horizontal step is included in the top section to make it more comfortable for installer when working on mast, rotator, or antennas.



### INSTALLING ROTATORS

- •1. Any make of rotator can be installed inside the top tower section for a neat appearance and, also, to make use of the mast bearing on the tower top plate. A short piece of tubing is furnished with each tower and can be used as a thrust bearing (for 1-1/4" mast) with the normal mast clamp on the top plate. The CDR "B" rotator can be installed by removing the base part and using four 1/4" x 1" bolts running up through the four holes in the rotor plate and into rotator. It is desirable to place 3/8" nuts to act as spacers between the rotor plate and the rotor. This will prevent the terminals of the rotor and rotor wire from shorting on the rotor plate.
- 2. An 8" piece of tubing is furnished with each tower. It can be installed into the clamp ("V" clamp and "L" shaped brackets <u>furnished for offset rotor installation only</u>) for the Alliance rotor and other offset rotors. It is necessary to reverse the clamp assembly (to face the outside of the tower), opposite that of installing a standard mast to the rotor plate. Crown rotators can be mounted directly to the "L" shaped bracket as shown or to the 8" mast as described above. A short piece of tubing is furnished with each tower and can be used as a thrust bearing (for 1-1/4" mast) with the normal mast clamp on the top plate.
- 3. The new Hy-Gain Model 400 rotator is mounted beneath the rotor plate (as pictured above). It will be necessary to increase the 1/4" holes in the rotor plate to 3/8" holes to use the 3/8" bolts furnished with this rotator. A short piece of tubing is furnished with each tower and can be used as a thrust bearing (for 1-1/4" mast) with the normal mast clamp on the top plate.

# ROHN-SPAULDING, INC.

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### ROHN-SPAULDING'S HAM TOWER ASSEMBLY AND INSTALLATION INSTRUCTIONS FOR HAX-HDX MODEL TOWERS (Using 4' Concrete Base Stubs)

### BREAKING DOWN BUNDLE

1. Remove package of hardware and the three 4' base stubs.

Lay bundle on side and remove tower sections. Start with inside section (smallest section) and remove by pulling out

with quick firm jerks. It is not necessary, nor desirable, to pry tower sections out with tools.

Inspect all tower sections on delivery to make sure that there are no loose or broken rivets caused by transport mishandling. If a rivet is broken or loose, it should be replaced by a snug-fitting machine bolt and nut, securely tightened.

### SETTING BASE IN CONCRETE

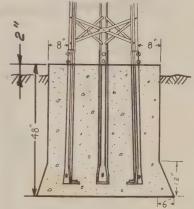
1. We recommend that a square hole be dug 4 ft. deep and 8 inches wider at the top on each side than the width of the base section of the tower. This hole should have vertical sides until the last foot and then be "belled" out on all sides about 6 inches, as in the illustration at the right.

2. Fasten the 4 ft. base stubs to the tower base section.

3. Place the bottom tower section with base stubs attached into the hole and hold in a vertical position while concrete is poured. Level the concrete at least 2' above the ground. (It may be necessary to make a form for this.) This will allow drainage. You may plumb the tower with either a plumb-bob or plumb level. Plumbing with plumb level is done on the outside of the legs.

4. Here is a table of approximate base widths at ground level and volume of bases

for installers who use "Ready Mixed" concrete.



Width	in	In	0
Cubic	Yds		

HAX-32	HAX-40 HDX-32	HAX-48 HDX-40	HAX-56
38" ·	41"	43"	46"
1.54	1.80	2.10	2.30

5. NOTE: If the tower is being placed in loose soil, be sure to check with a local building contractor for advice on installing a deeper or larger base. This tower is no stronger than the base.

### ERECTING TOWER

After the concrete is suitably hard, the tower is ready to be erected.

The tower may be installed by climbing and assembling sections vertically. Each higher section slides inside previous one and is located on the rivet stop. (This is used to prevent the tower section from slipping too far down.) Proceed by bolting together.

NOTE: Larger bolts are used in the lower sections of the tower and the smaller bolts are used in the top sections.

IMPORTANT NOTE: The following procedure should be used when bolting tower sections together. Insert bolt through holes of the two sections. Place a lockwasher on the bolt and run the nut on. Only one lockwasher is required on each bolt and it is placed under the nut. Tighten the nut securely, but be careful not to strip the threads.



### INSTALLING MAST

1. Since most "Ham" towers are to be used with rotators, there is only one FL mast clamp provided. This is a pipe flange on the top plate of the tower and is provided with three bolts to be used as set screws to hold the mast. If a rotator is used, a 4" piece of tubing with the I.D. larger than the O.D. of the mast can be installed in this clamp and used as a sleeve bearing for the mast to turn in.

If the mast is to be permanently affixed, it is then necessary to obtain and install an additional pipe flange

assembly on the second plate.

### INSTALLING ROTATORS

1. Inline model rotators such as the C.D.R. TR2, TR4, and AR22 mount directly to the rotator plate. Mounting this type of rotator to the plate is done by leaving off the bottom housing of the rotator. The necessary holes for mounting are pre-drilled in the plate itself. It is desirable to place 3/8" nuts to act as spacers between the rotor plate and the rotator. This will prevent the terminals of the rotator and the rotator wire from making an electrical short on the rotor plate.

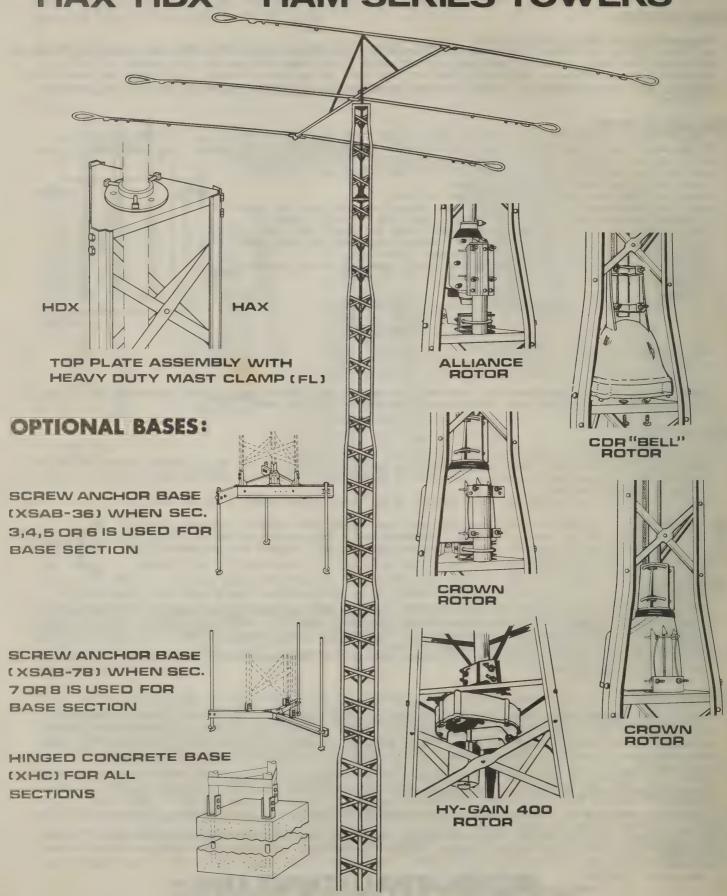
An 8" piece of tubing is furnished with each tower. It can be installed into the clamp ("V" clamp and "L" shaped brackets furnished for offset rotor installation only) for the Alliance rotor and other offset rotors. It is necessary to reverse the clamp assembly (to face the outside of the tower), opposite that of installing a standard mast to the rotor plate. Crown rotators can be mounted directly to the "L" shaped bracket as shown on the reverse side, or to the 8" mast as described above.

3. The new Hy-Gain Model 400 rotator is mounted beneath the rotor plate (as pictured on the reverse side). It will be necessary to increase the 1/4" holes in the rotor plate to 3/8" holes to use the 3/8" bolts furnished with this rotator.

U.S. Patent No. 2,806,560

# ROHN-SPAULDING, INC.

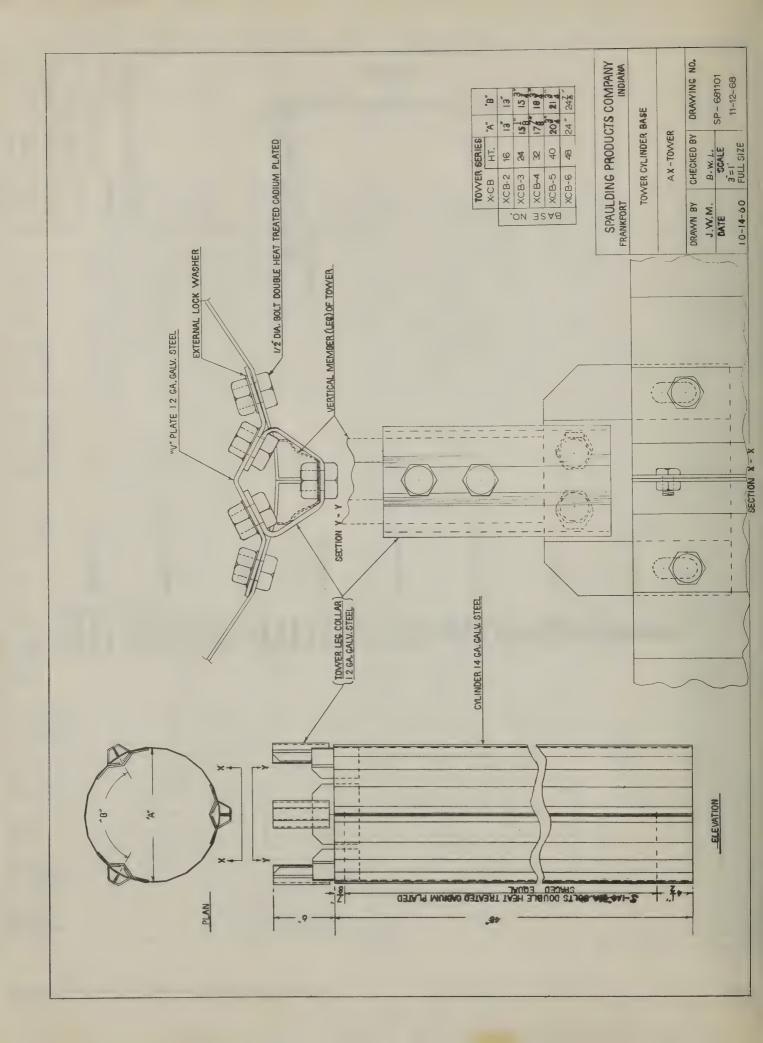
# ROHN-SPAULDING HAX-HDX HAM SERIES TOWERS

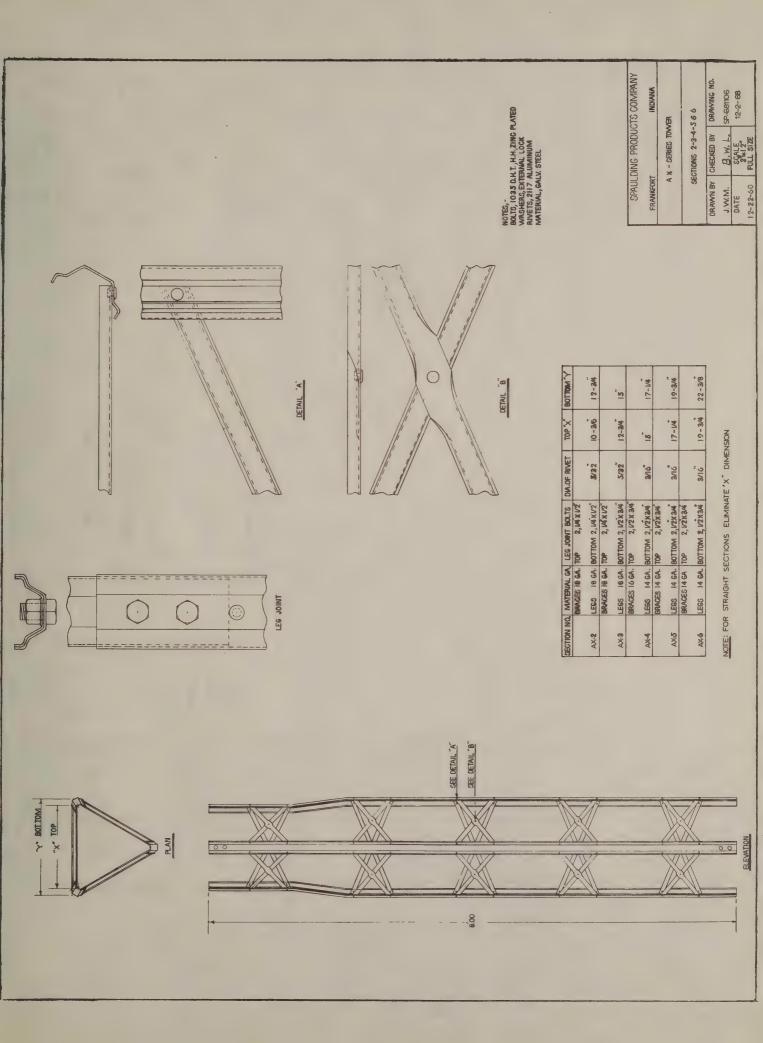


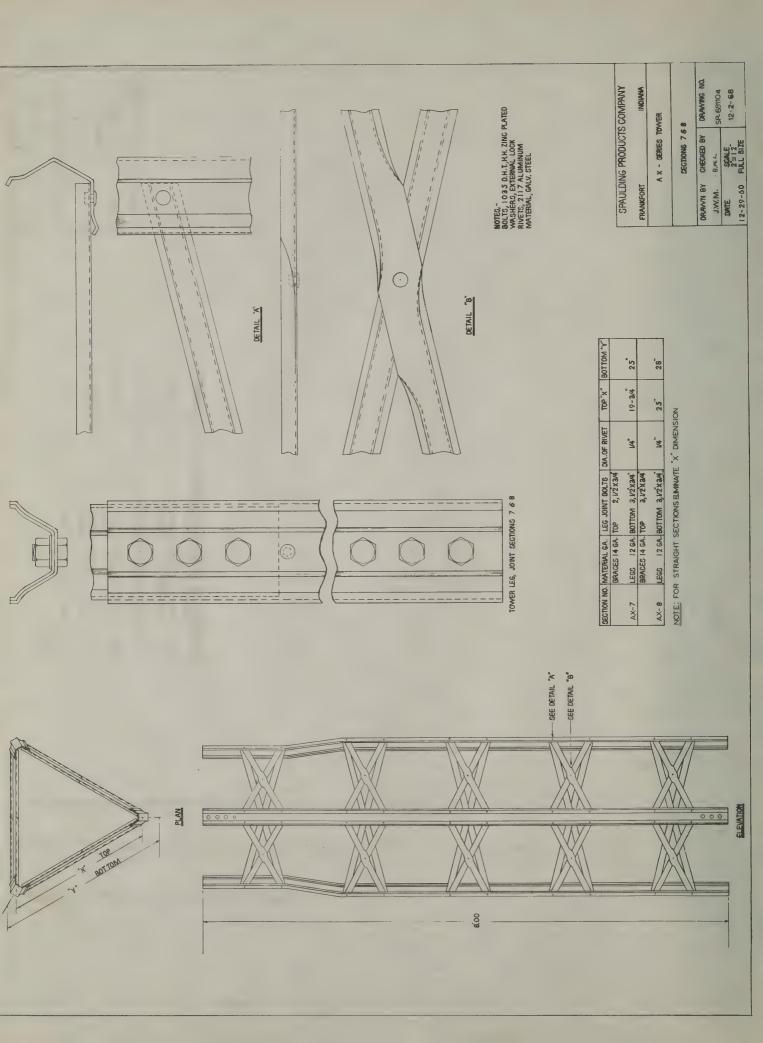
HAX AND HDX
SELF-SUPPORTING TOWERS
(SELF-SUPPORTING WITH ONE BEAM ONLY.)

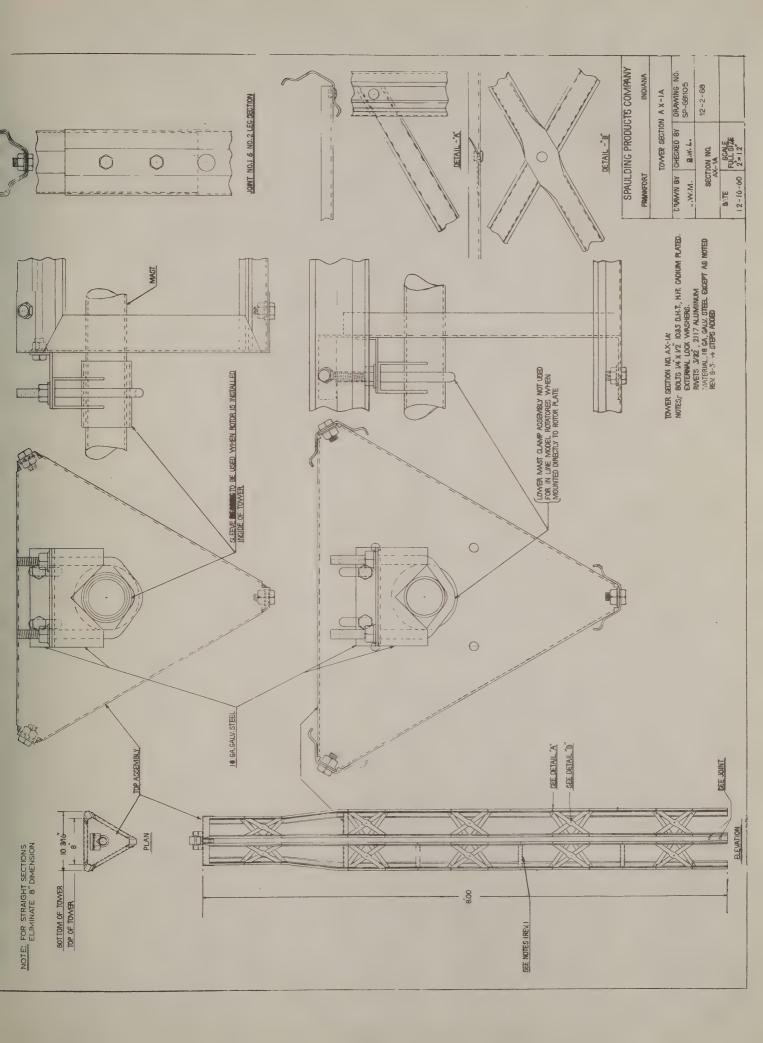
# SPECIFICATIONS FOR 8' AX SECTIONS

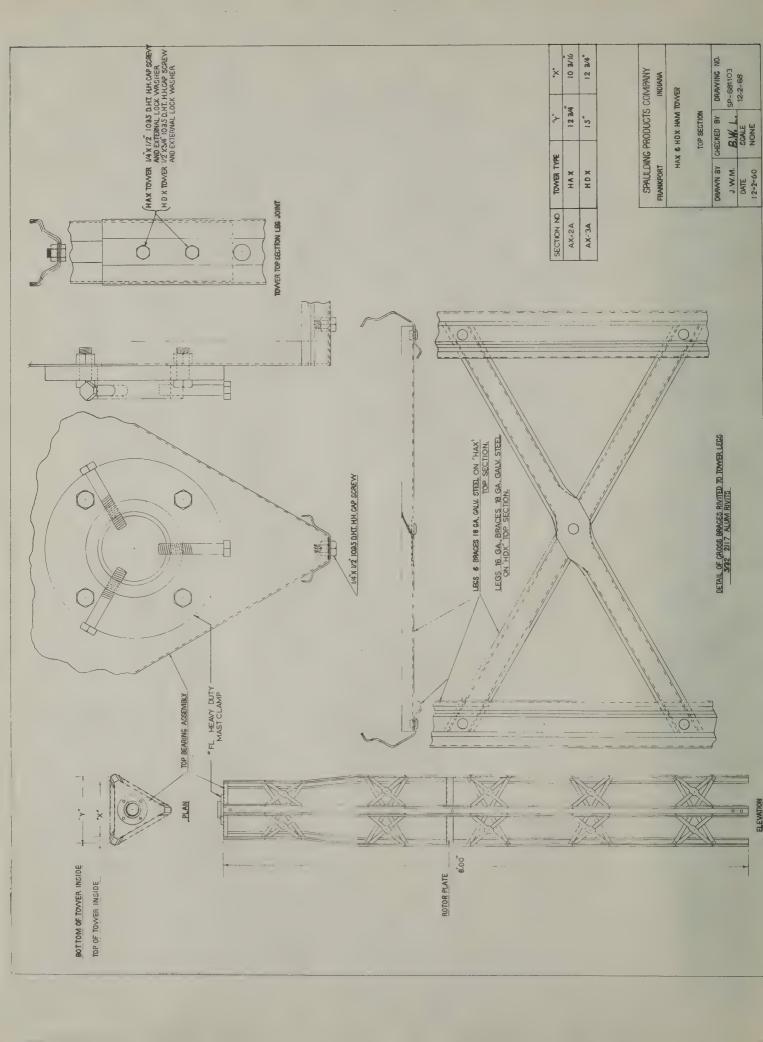
WT.	18.0	18.5	19.0	19.5	24.0	27.0	28.0	38.0	0.44	59.0	65.0
IZES Braces	18.ga.	18 ga.	18 ga.	18 ga.	18 ga.	18 ga.	16 ga.	14 ga.	14 ga.	14 ga.	14 ga.
MATERIAL SIZES	2 3/4"x18 ga. 2 3/4"x18 ga.	2 3/h"x18 ga.	2 7/8"x18 ga. 2 7/8"x18 ga.	2 7/8"x18 ga.	3" x 16 ga. 3" x 16 ga.	3" x 14 ga.	3 3/16"x14 ga. 3 3/16"x14 ga.	3 3/8"x14 ga. 3 3/8"x14 ga.	3 9/16"x14 ga 3 9/16"x14 ga	4 1/4"x12 ga. 4 1/4"x12 ga.	4 1/2"x12 ga. 4 1/2"x12 ga.
DIMENSIONS ide to Inside) Bottom	10 3/16"	10 3/16"	12 3/4" 12 3/4"	12 3/4"	15"	15"	17 1/4"	19 3/4"	22 3/8"	25"	28"
DIMENS: (Inside to Top	£ 5	10 3/16"	10 3/16" 10 3/16"	12 3/4"	12 3/4" 12 3/4"	15"	15"	17 1/4"	19 3/4"	22 3/8"	25"
BOLTS	6 - 1/4"x1/2" 6 - 1/4"x1/2"	6 - 1/4"x1/2"	6 - 1/4"x1/2" 6 - 1/4"x1/2"	6 - 1/4"x1/2"	6 - 1/2"x3/4" 6 - 1/2"x3/4"	6 - 1/2"x3/4"	6 - 1/2"x3/4" 6 - 1/2"x3/4"	6 - 1/2"x3/4" 6 - 1/2"x3/4"	6 - 1/2"x3/4" 6 - 1/2"x3/4"	9 - 1/2"x3/4" 9 - 1/2"x3/4"	9 - 1/2"x3/4" 9 - 1/2"x3/4"
DESCRIPTION	t. hori- ate	(XT-1), rotor plate (AK-1) & mast hardware kit (AX-MK2) #1 straight section	#2 standard offset sect. #2 offset top sect. w/top plate (XT-2) and rotor	<pre>plate (XR-2) #2 straight section</pre>	#3 standard offset sect. #3 offset top sect. w/top	plate (A1-5) and rotor plate (XR-3) #3 straight section	<pre>#\ standard offset sect. #\ straight section</pre>	<pre>#5 standard offset sect. #5 straight section</pre>	#6 standard offset sect. #6 straight section	<pre>#7 standard offset sect. #7 straight section</pre>	#8 standard offset sect. #8 straight section
CAT. NO.	AX-1 AX-1A	AXS-1	AX-2 AX-2A	AXS-2	AX-3 AX-3A	AXS-3	AX-14 AXS-14	AX-5 AXS-5	AX-6 AXS-6	AX-7 AXS-7	AX-8 AXS-8

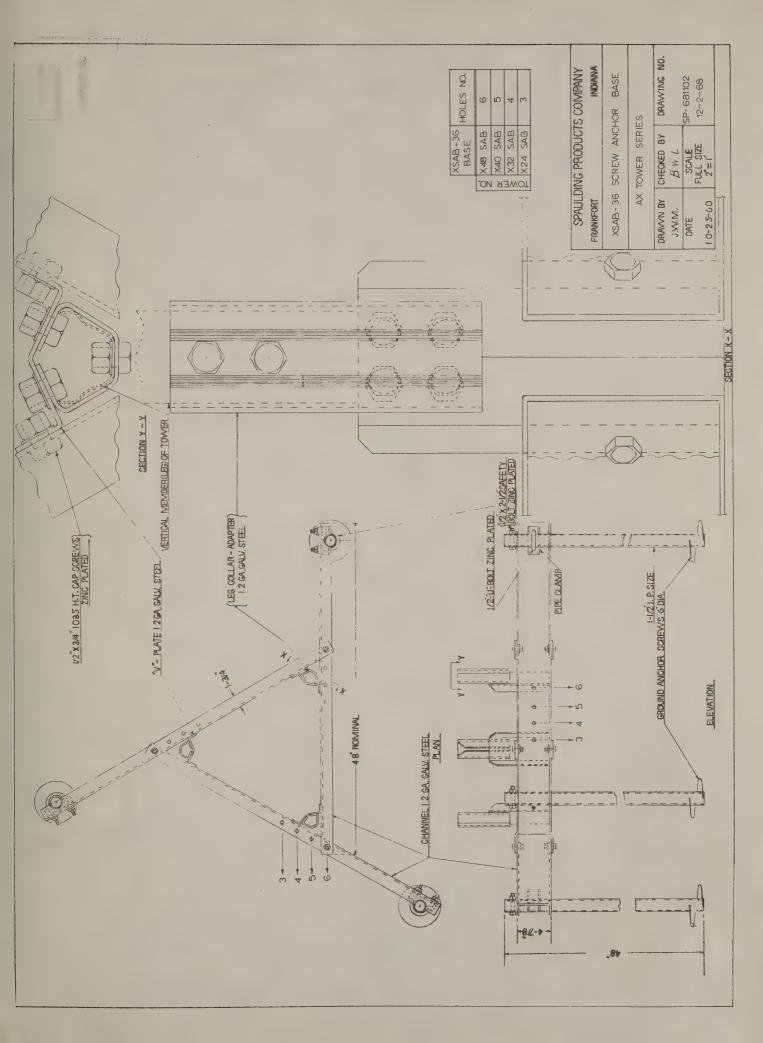


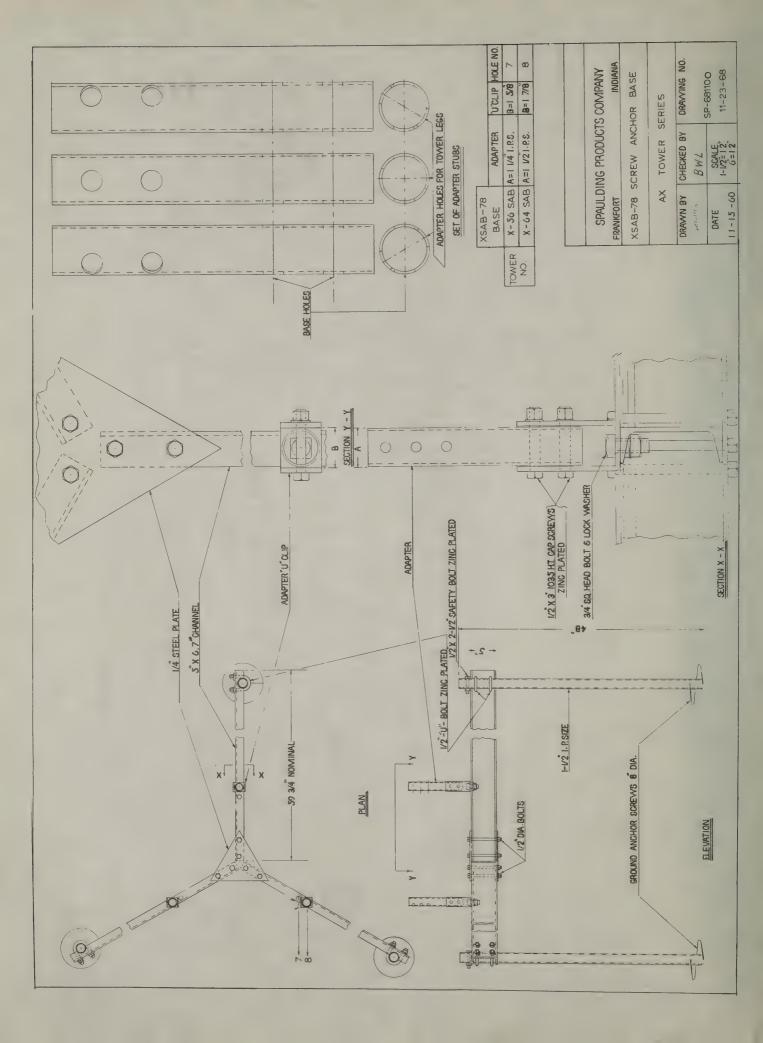










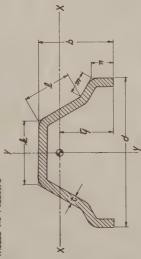


THE SAMLDING AN-TYPE ANTENING DUERS ARE MANUFACTURED TOWERS OF TRANSCULAR CROSS SECTION. THE TOWERS ARE MANUFACTURED TOWNS OF TRANSCULAR CROSS SECTIONS ARE MANUFACTURED IN SECTIONS APPROXIMATELY EIGHT YEST LONG WHICH ARE BOLTED TOGETHER WITH LAP SECTIONS ARE NUMBERED ON SECULORIED. FOR ANY AT THE BOTTOM OF A GA-FOOT TOWER. THIS FOR EXAMPLE, A 32-77. TOWER WILL CONSIST OF SECTIONS ANY SECTIONS ANY SECTIONS ANY SECTIONS ANY SECTIONS AND SECTIONS

THE TOWERS ARE INTENDED TO SUPPORT TELEVISION RECEIVING ANTENNAS, SUCH AS FOR HOME USE. I'M MORMAL APPLICATIONS THE TOWES ARE FREE-STANDING. THE CONTING LOADING COMPITON IS THE WIND LOAD COMPORTION. THE WIND LOADS ARE TRAKEN TO BE PROPOSED OR PROJECTED AREA OF MICH IS ASSUMED TO THE EXPOSED OR PROJECTED AREA OF MICH IN ASSUMED APPROPRIATE FORCE WINCH TO THE WIND, MULTIPLIED BY AN APPROPRIATE FORCE THE WIND, MULTIPLIED BY AN EXEMBINING OBLIQUE FREES.

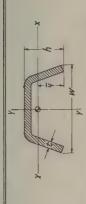
# SECTION PROPERTIES

THE PERTINENT SECTION PROPERTIES OF THE UNRIOUS ELEMENTS ARE LISTED IN TRALES AS FOLLOWS:



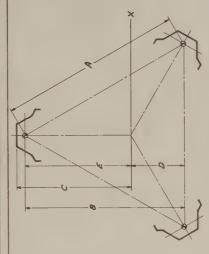
# CROSS-SECTION OF TYPICAL VERTICAL ELEMENT

	k> ⅓	. 580	.628	.635	999.	.707	.784	.864	156.
	Ly In:4	.0444	.0544	.0726	. 1062	./266	-1642	.3328	.4272
	t. 11	.272	.295	. 207	.307	.327	.360	.432	.434
IENTS	Lx m.*	8600.	.0/20	84/0.	.0226	. 0270	.0346	.0832	.25 .4725 .8367 .0890 .434
LLEM	12-5	.5441	.5622	.5746	.6022	9969.	.6906	9608.	.8367
RTICAL	ARE'A,	./320	./380	0081.	.2391	.253/	.2672	.4462	.4725
r VE	€ ¾	.25	.25	.25	.25	.25	.25	25	3
1ES 0	14.31	.25	.25	.25	.25	.25	.3/25	.3/25	.3/25
SECTION PROPERTIES OF VERTICAL ELEMENTS	11.1	.5625	.625	.625	.6875	.750	.8/25	1.0937	1.375 1.0937
10N F.	e# ₹	.75	.8/25	.875	2.0625 .9375	1.000	1.0625	1.125	1.375
SECT	D	1.75	1.075	1.9375	2.0625	2.1075	2.4062	2.75	3.00
	<i>b</i>	. 875	. 9375	.9375	.9325	1.000	1.125	1.375	1.375
	t	.048	.048	090.	.075	270.	.075	.105	./05
	SECTION	AX-1	AX-2	AX-3	AX-4	AX-5	AX-6	AX-7	AX-8



CROSS-SECTION OF TYPICAL DIAGONAL ELEMENT

	Sei	CTION /	PROPERT	71ES OF	DIAGON	SECTION PROPERTIES OF DIACONAL ELEMENTS	MENTS		
SECTION	i) c	h	7 %	AREA,	2- <u>§</u>	Lx IX.4	12.33	Zy m.*	to 3.
AX-1	.048	۶۶.	۲۶.	.054	.235	.029000	101.	06800.	. 247
AX-2	840.	38.	jς.	.054	.235	.000620	101.	.00330	.247
AX-3	.048	£.	25.	, as#	.235	.000620	101	.ag30	.247
AX-4	.060	.35	5%	.0675	. 228	.000732	\$01.	₩£00°.	.242
AX-5	.075	.46	1.05	.1125	.307	.002/54	681.	.0/342	.345
9-XH	.075	34	1.05	.1125	.307	-002/64	661.	.0/342	.345
AX-7	.075	94:	1.05	.//25	.307	.002164	667.	.0/342	.345
AX-8	.075	.46	1,05	.1125	.307	.002/64	139	JAE10.	.345



# TYPICAL CROSS-SECTION OF TOWER

		Se	CTION	PROPER	PTIES 01	SECTION PROPERTIES OF TOWER			
ECTION	SECTION (3 LEGS)	Z ž	Ø	رۆ	Oặ	£.	Zx m.e	1× ×	WEIGHT, LES.
AX-1	.396	49.64	0.35	5.88	2.78	5.56	97.9	3.94	8/
AX-2	414.	12.14	10.51	2.36	3.50	707	10.21	497	"
AX-3	.540	14.41	12.48	8.66	4/6	0.32	16.73	5.89	22
AX-4	7117.	19.91	14.39	96.6	4.80	6.59	33.05	6.77	29
AX-5	.759	19.08	16.52	11:40	5.5/	11:01	46.10	7.79	40
9-XH	.802	27.65	18.75	12.92	6.25	0521	62.73	8.85	43
AX-7	1.339	24.06	20.83	14.43	6.94	13.89	129.4	9.83	29
AX-8	1.417	27.11	23.47	16.16	7.82	15.65	173.9	90://	3

# STRENGTH OF ELEMENTS

COMPRESSIVE STREES, [", FOR THE WAROUS ELEMBATS IS THREW FROM A.L.S.C. SPECIFICATIONS FOR STREEL HAVING A VIELD STREEWSTY OF 36,000 MI AT THE CORRESPONDING SLENDERKESS MATTOS OF THE SLEMBITS. MARIOUS ELEMENTS ARE SUCH THAT LOCAL CRIPPLING IS NOT A CONSIDERATION. MOREOVER, MONGE AGAIN ELEMENT IS ESSENTIALLY A CONSIDER AND ITS CROSS-SECTION IS SYMMETRICAL ABOUT ITS MINOR ANS, THE MODE OF POSSIBLE COMPRESSIVE FAILURE OF EGGN ELEMENT. NIDTH-TO- THICKNESS RATIOS FOR THE FLAT AREAS OF THE MAY BE TAKEN AS SYMMETRICAL. ACCORDINGLY, THE ALLOWABLE

In accordance with these specifications, the allowable Stresses are independent or 334 percent for the multiple confidence of 334 percent for the multiple confidence of the accordance confidence stresses for the unable members are computed in the male

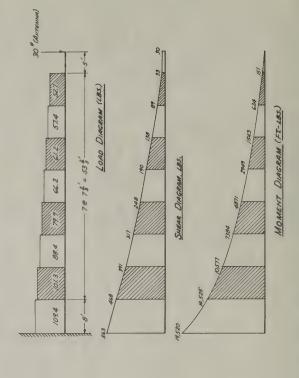
	72 /8	23,960	22,280	21,770	20,020	2,930	20,610	N,520	17,530
رې	12/2	02.671	16,710	16,330	15,050	16,450	15,460	14, 640	13,150
BRACE	14	54.2	673	2%0	62.7	8.69	1 1/2	86.3	28.6
AGONAL	1 3	101.	101.	101.	104	138	137	134	139
O,	k'	5.6	7.2	26	98	4.7	11.0	12.0	13.7
	. K.	11.6	14.4	15.2	17.2	19.4	22.0	34.0	27.4
	78 g	25,/30	25,570	25,400	25,680	25,920	28,280	28,780	28,810
5.5.	198	18,650	M, 130	Maso	N,250	N.440	N, 7/0	20,090	011/02
CAL LE	414	4.8.7	40.7	41.8	39.1	36.7	33.3	27.8	27.6
VERT	1. 3	.272	295	782.	.307	.327	.360	.432	434
	, F.	77	12	12	7/	2/	21	12	77
Section		AX-1	AX-2	AX-3	AX-4	AX-S	9-XK	AX-7	AX-8
	SECTION VERTICAL LEGS DIACONAL BRACES	L, T. L Fa Fa L, L TH FA FA PSI	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Li T. Lecs.  Li T. Li	VERTICAL LEGS			VERTICAL LEGS

# PROJECTED AREAS AND WIND LOADS

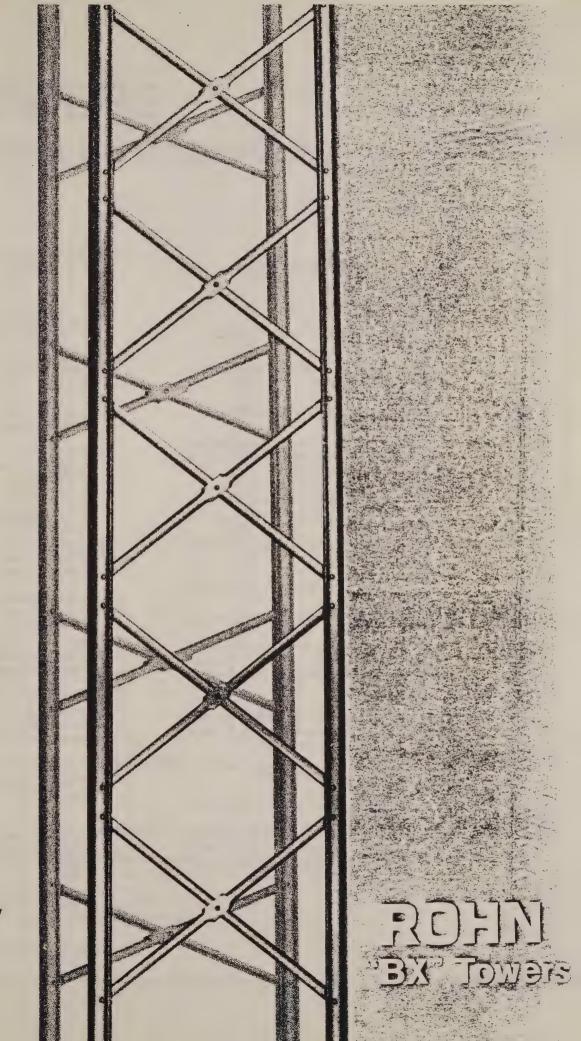
THE NORMAL LIES AT 60° TO THE DIRECTION OF THE WIND AND,
THEREFORE THE WIND PLECTTY CHAPPAGET ON SUCH ARESS IS
ONE—HALF OF THAT ON THE FOUNTAL FACE. SINCE THE WIND
PRESSURE WRIGHES AS THE SOUNDER OF THE VENDENTY, THE LOAD ON
ENCY OF THE TWO CHAPPER FACES AS ONE—BURTH OF THAT ON THE
FROMTH. FOR CE, MAD THE TOTAL LOAD MAY BE THEN AS IS THESE THE WIND LOAD OF OUE FACE HORMAL TO THE DIRECTION OF THE WIND IS TAKEN AT VARIOUS WIND PRESSURES ACTING ON THE PROSECTED AREA OF THAT FACE. AT THE REMAINING TWO FACES PROJECTED OF 2 SQUARE FEET AND ASSUMED TO BE LOCATED STREET AND ASSUMED IN THE SHEAR AND THE LOAD ON THE FRONTAL FACE. AN ANTENNA HAVING A MOMENT DIAGRAMS SNOWN IN THE COLUMN AT THE RIGHT.

IN COMPUTING THE AMPLICABLE MITAL LANDS SHIEFEQUENTLY IN THE SECTION ON STREETS, AN ALLEGUENCE OF SCHOOLS INSTITUTED HAS BEEN AND FOR THE MANDE FOR MY AND FORESTORMS MIN AND MY CONTRIBUTION OF THE MY AND ADDRESSOR OF THE MY ADDRESSOR OF THE M PROJECTED AREAS AND WIND LOADS ON THE SECTIONS AT VARIOUS WIND PRESSURES ARE SHOWN IN THE TABLE AT THE RIGHT. ALLOWANCE FOR A SH DIAMETER CORUNI LINE IN ADDITION TO THE TOWER

	VERTICAL LEGS   LEWOSED   LEWOTH, AREA   FT.2   FT.2   96 . 91   96 . 97	Expased Hines (1) Face) FT, 2 1, 82	DIAGON, WIOTH, TS	DIMCOMAL BRACES  EXPASED EXPASED  WIDTH, LEWETH, (1/ROCE)  IN. IN. FIT.  TO 100 SE	Express (1 Proces) FT.2 S. S.	TOTAL EXPOSED MREA (1 FACE) FT.2	WINU	WIND PRESSURE	38%
9		Exposed (15,000) (1,000) (1,000)		Leworn, IN.	See	EXPOSED AREA (1 FACE) FT.2	10 155		-
1,37		1.92	8 8	0.01	S. 13.		(NAM OS)	AREA 10 PSF 15 PSF 20 PSF (1 FACE) (50 MPN) (612 MPN) (70.1 MPN)	JS LSE
1.59 1.59 1.68		8/	.75	11 25	19.	2.34	35.1	52.7	70.2
1.59				2:1		2.55	38.3	57.4	76.5
1.59	00%	2:00	K	13.75	14.	27.2	40.8	61.2	97.8
897	907	2.72	K	57.52	.82	7.5%	44.1	66.2	88.2
	7/7	2.34	1.05	18.0	1:31	3.35	53.3	78.9	106.5
AX-6 1.83 %	1.22	2.44	1.05	20.5	1.49	3.93	0.65	88.4	6211
AX-7 2.14 96	1.43	2.86	1.05	22.5	7.	4.50	67.5	101.3	135.0
AX-8 2.27 %	121	3.02	1.05	25.2	1.84	4.86	72.9	4:0	M5.8



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For Home TV Ham Radio and CB



### Most Basic Tower Needs

Up to 6 sq. ft. antenna capacity (see specifications)

Available to 64' in 8' sections

"X" Brace design gives greater strength — braces riveted in center as well as at ends

Greater width and weight at bottom — for greater strength

Beaded channel leg for added strength

All riveted construction - no welds

All steel - galvanized for added life

Can be used with Concrete Base Stubs, Cylinder Base or Hinged Concrete Base (see tower accessories chart)

Tower can be assembled on the ground and hinged up or built vertically, section upon section

Rotators easily installed

Physical properties and specifications available

Compact Nested 48' Tower Package — takes only 2 sq. ft. floor space

### **HEAVY DUTY**

### For Heavier Capacity

Has same structural features as BX

Up to 10 sq. ft. antenna capacity (see specifications)

Available to 56' in 8' sections

This tower will hold larger antennas and rotators than standard BX tower. Top of HBX tower is a 10-3/16" triangle

Rotators easily installed

Can be used with Concrete Base Stubs or Hinged Concrete Base (see tower accessories chart)

Tower can be assembled on the ground and hinged up or built vertically, section upon section

Physical properties and specifications available

Compact Nested 56' Tower Package — takes only 2-1/2 sq. ft. floor space

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# **BX TOWERS**

# For TV, Ham, CB Installations

### **EXTRA HEAVY DUTY**

### Our Heaviest BX Tower

Has same structural feature as BX

Up to 18 sq. ft. antenna capacity (see specifications)

Available to 48' in 8' sections

Due to design structure this tower will withstand greater loading than other models. Top of HBDX tower is a 12-3/4" triangle

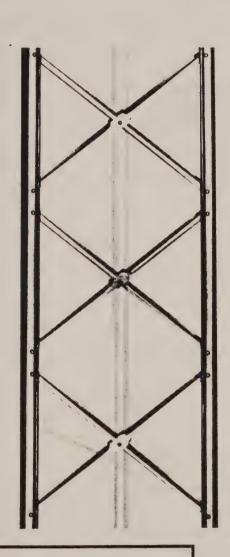
Rotators easily installed

Can be used with Concrete Base Stubs or Hinged Concrete Base (see tower accessories chart)

Tower can be assembled on the ground and hinged up or built vertically, section upon section

Physical properties and specifications available

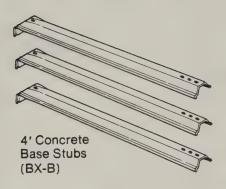
Compact Nested 48' Tower Package — takes only 2-1/2 sq. ft. floor space



### **Towers As Packed For Shipping**

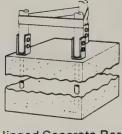
BX, HBX, HDBX are shipped with: mast hardware kit (BX-MK2 or XT-2 and XR-2 for HBX, XT-3 and XR-3 for HDBX), A mast clamp (FL), 8' mast M-8).
BASE MUST BE ORDERED SEPARATELY. Bases (BX-B,

BASE MUST BE ORDERED SEPARATELY. Bases (BX-B, BX-HC and BX-CA) are illustrated on back page.





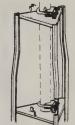
(FL)



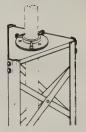
Hinged Concrete Base (BX-HC)



4' Cylinder Base (BX-CA)



Mast Hardware Kit



Top Plate Assembly (XT) Heavy Duty Mast Clamp (FL)

Tower "Package" — compact shipping and storage method. Includes all necessary parts and hardware.

All towers are recommended to be bracketed for extra safety and to withstand gusty wind conditions.

Note: Local building and/or zoning laws frequently require a building permit. Available BX Engineering Data should be submitted for approval prior to purchasing a tower.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHM recommends anti-climb sections on all towers to

All towers and mosts should be installed and dismantled by experienced and trained personnel.

All types of antenne installations should be theroughly inspected by qualified personnel and remarked with hazard and warming labels at least twice a year to insure

All antenne installations must be grounded per local and national codes.

The mixing of se-called interchangeable copies of ROMN products to dangerous and voids all engineering or warranty data supplied by ROMN. Materials used by the se-called copies are not the same quality and host not been tested or engineered by ROMN to conform to the same quality standards. Mixing of non-ROMN items may endanger the lives of your customers and cause serious three lattures and financial missiontune for all consciences.

\* Not Recommended
Convenience Item Only



6718 West Plank Road P.O. Box 2000 • Peoria, Illinois 61656 Phone: 309-697-4400

### BX TOWER

	<u>BA TOWER</u>	
PART NUMBER		WT.
8' BX Sections		
BX1A	Officet top coetion w/PVT1 PVP1 PVNV2	26
BXS1	Offset top section w/BXT1, BXR1, BXMK2 Straight section	26
BX2	Standard offset section	23
BX2A	Offset top section w/BXT2, BXR2	26
BXS2	Straight section	24
BX3	Standard offset section	28
BX3A	Offset top section w/BXT3, BXR3	32
*BXS3	Straight section	29
BX4	Standard offset section	41
*BXS4	Straight section	42
BX5	Standard offset section	59
*BXS5	Straight section	60
BX6	Standard offset section	64
*BXS6	Straight section	65
BX7	Standard offset section	75
*BXS7	Straight section	77
BX8	Standard offset section	82
*BXS8	Straight section	84
Nuts and bolts included  BX Accessories	in section prices.	
BXMK2	Mast hardware kit w/rotor post for top and rotor plate	2
FL	Heavy duty mast clamp	31/2
EFBX	12' aluminum erection fixture for all BX sections	22
HBX	Head only for EFBX	12
P2545	Pole only for EFBX (or EF2545)	10
BXSM	Side mount (28" - 40") w/41, 14" OD mast (fits sections 1 thru	16
HDDV	6 - recommend tower be guyed when using this mount)	1.4
WPBX	Work platform	14
BXSK1 BXSK2	Extra step kit for section 1	1
BXSK3	Extra step kit for section 3	1
BA370	Extra step kit for section 3	'
Top and Rotor Plates		
Top and Notor Trates		
BXT1	Top plate for section BX1	1
BXT2	Top plate for section BX2	11
BXT3	Top plate for section BX3	2
BXR1	Rotor plate for section 1	1
BXR2	Rotor plate for section 2	2
BXR3	Rotor plate for section 3	2
Masts		
M8	8' mast (1½")	61/2
M4	4' mast (1½")	3

NOTE: When adding BXS1 or BXS2 sections to any BX tower, tower must be guyed. See #25 guy chart.

### F.O.B. FRANKFORT, INDIANA

<sup>\*</sup>Discontinued

PART NUMBER	WT.	PART NUMBER	WT.	PART NUMBER	WT.
Self-Supporting Stand BX Tower with (M8) 8'		Self-Supporting He BX Tower w/ (FL) ma		Self-Supporting Extra BX Tower w/(FL) mast	
BX24 BX32 BX40 BX48 BX56 BX64	84 125 184 248 323 405	HBX24 HBX32 HBX40 HBX48 HBX56	105 164 228 303 385	HDBX24 HDBX32 HDBX40 HDBX48	142 206 281 363
Note: Concrete base s	stubs not includ	ed on above towers.	Order all bases	as a separate item.	
PART NUMBER					WT.
4' Concrete Base Stubs (Tower height not to e					
BXB3 BXB4 BXB5 BXB6 BXB7 BXB8	Stubs for sect Stubs for sect Stubs for sect Stubs for sect Stubs for sect Stubs for sect	ion 4 ion 5 ion 6 ion 7			14 17 18 22* 25 27
Self-Supporting 4' Cyl (For use without concr (Tower height not to e	ete with mounti	ng hardware)			
BXCA3 BXCA4 BXCA5 BXCA6 BXCHK	For use with s For use with s For use with s For use with s Cylinder base	ection 4 ection 5	sections 3, 4, 5,	& 6)	75 85 95 106 16
Note: Cylinder base r cylinder bases. Cylin				not recommend the use	of
Self-Supporting Hinged (Tower height not to e		for All Sections			
BXHC36 BXHC78	Fits sections Fits sections	9			25 48
EX Series Bracketed Ho Base Plate, 8' Mast, a					
EX2 EX3 EX4 EX5	16' tower 24' tower 32' tower 40' tower				76 99 124 148
EX Accessories	•				
EXR1 EXB1 EXDR1 M8 EXH1 EXH2	Universal roof Base plate 3' drive rods 8' mast (1½") Adjustable hou Adjustable hou	(set of 3) se bracket - 4" to	18" (fits sections 24" (fits sections	1, 2, 3, 4, 5, & 6) 1, 2, 3, 4, 5, & 6)	2 2 8 6 6 7

F.O.B. FRANKFORT, INDIANA

Refer to alphabetical/numerical price list for current prices.

"WARNING: INSTALLATION OR DISMANTLING OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE CATALOG DIRECTIONS."

### INSTALLATION AND DISMANTLING INSTRUCTIONS -- YOU, YOUR ANTENNA, AND SAFETY

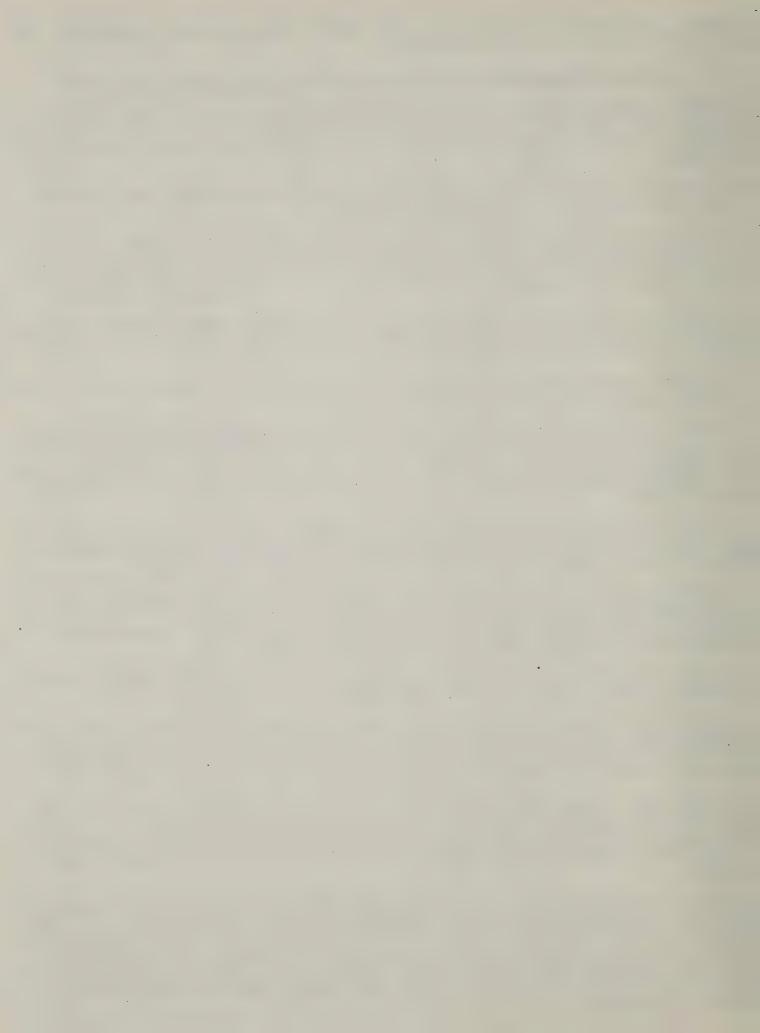
Each year hundreds of people are killed, mutilated, or receive severe permanent injuries when attempting to install or dismantle an antenna. In many of these cases, the victim was aware of the dangers of electrocution and failure but did not take adequate steps to avoid the hazard.

For your safety and to help you achieve a good installation, please  $\frac{\text{READ}}{\text{APP}}$  and  $\frac{\text{FOLLOW}}{\text{SAVE}}$  the safety precautions below. THEY MAY SAVE YOUR LIFE!

- 1. If you are installing or dismantling an antenna for the first time, please, for your own safety as well as others, seek PROFESSIONAL ASSISTANCE. Consult your dealer. He can explain which mounting or dismantling method to use for the size and type antenna you are about to install or dismantle.
- 2. Select your installation site with safety, as well as performance, in mind. (See information on Site Selection.) REMEMBER: POWER LINES AND PHONE LINES LOOK ALIKE. FOR YOUR SAFETY. ASSUME THAT ANY OVERHEAD LINES CAN KILL YOU.
- 3. Call your power company. Tell them your plans and ask them to look at your site. This is little inconvenience, considering YOUR LIFE IS AT STAKE.
- 4. Before you begin, plan your installation or dismantling procedure carefully. Successful installation or dismantling of a mast or tower is largely a matter of coordination. Each person should be assigned to a specific task and should know what to do and when to do it. One person should be designated as the "boss" to call out instructions and watch for signs of trouble.
- 5. When installing or dismantling your antenna, REMEMBER:  $\underline{DO}$  NOT use a metal ladder.  $\underline{DO}$  NOT work on a wet or windy day or if a thunderstorm is approaching.  $\underline{DO}$  dress properly --shoes with rubber soles and heels, rubber gloves, long sleeve shirt or jacket.
- 6. If the assembly starts to drop, get away from it and let it fall. REMEMBER: The antenna, mast, cable, and metal guy wires are all excellent conductors of electrical current. Even the <u>slightest touch</u> of any of these parts to a power line completes an electrical path through the antenna and the installer -- THAT'S YOU!
- 7. If any part of the antenna system should contact a power line -- DON'T TOUCH IT OR TRY TO REMOVE IT YOURSELF. CALL YOUR LOCAL POWER COMPANY. They will remove it safely.
- 8. If an electrical accident should occur -- DON'T grab hold of the person in contact with the power line or you too will be electrocuted. Use a DRY board, stick or rope to push or pull the victim away from the antenna. If the victim has stopped breathing, administer artificial respiration -- and stay with it. Have someone call for medical help.

SITE SELECTION: Before attempting to install your antenna, think where you can best place your antenna for  $\frac{1}{1}$  and performance. To determine a safe distance from wires, power lines, and trees: 1) Measure the height of your antenna; 2) Add this length to the length of your tower or mast; and then, 3) Double this total for the minimum recommended  $\frac{1}{1}$  distance.

If you are unable to maintain this safe distance, STOP! GET PROFESSIONAL HELP. Generally, the higher the antenna is aboveground, the better it performs. Good practice is to install your antenna above the roof line and away from power lines and obstructions. Remember that the FCC limits your CB antenna height. If possible, find a mounting place close to your set, where the antenna wire can take a short, vertical drop on the outside of the house for entry through a wall or window near the set. Your dealer carries a complete line of installation hardware.



### ROHN

### INSTALLATION INSTRUCTIONS

### BX SELF-SUPPORTING CYLINDER BASES

- 1. Assemble the base as shown on Drawing C750409.
- 2. Place the cylinder in the area the tower is to occupy. (Note: Be sure to position the base so that the tower can be hinged in the direction where there are no obstructions.) Mark off a circle approximately 2 to 3 inches larger than the cylinder.
- 3. Dig a hole 4 feet deep (deep enough to completely bury the cylinder below ground level).
- 4. Drop the cylinder in the hole and with it as vertical as possible throw the soil back into the cylinder and around it, tamping it solid after every 6 to 8 inches of fill. (Note: Be sure cylinder is flush or below the ground surface. See Drawing C750409.)
- 5. When the cylinder is approximately one-half full of dirt, attach the base tower section to the pipe sleeves of the base as shown on Drawing C750409. This is necessary to avoid distortion of the cylinder as you continue to fill and tamp the soil in the base.
- 6. Continue to fill and tamp the soil into the cylinder to within 6 inches of the top.
- 7. Plumb the tower section by placing a level on the outside of each leg adjusting to the plumb position by loosening and re-aligning the BXCBl angle support brackets until the tower is plumb. (Note: The brackets must be extremely tight when the tower section is plumb.)
- 8. Remove the top 1/2" x 3-1/2" bolts on the pivot side of the tower that holds the pipe sleeves to the yokes. Then remove both bolts on the side opposite the pivot direction. The section can now be hinged to the ground.
- 9. Assemble the rest of the tower as per BX tower instructions. Hinge the tower up and when vertical put the 1/2" x 3-1/2" bolts back through the yokes and pipe sleeves. Then tighten all base bolts securely.
- 10. Complete filling the cylinder with dirt and tamp firmly.
- 11. After installation is completed, the base should be rechecked in about 30 days to be sure that the hardware remains tight and it should be rechecked every six months.
- 12. Towers installed in sand or gravel should be guyed or bracketed.

CAUTION ... Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower over.

All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any hinged type base, the loads applied for hinging the tower must be applied equally on both sides of the tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

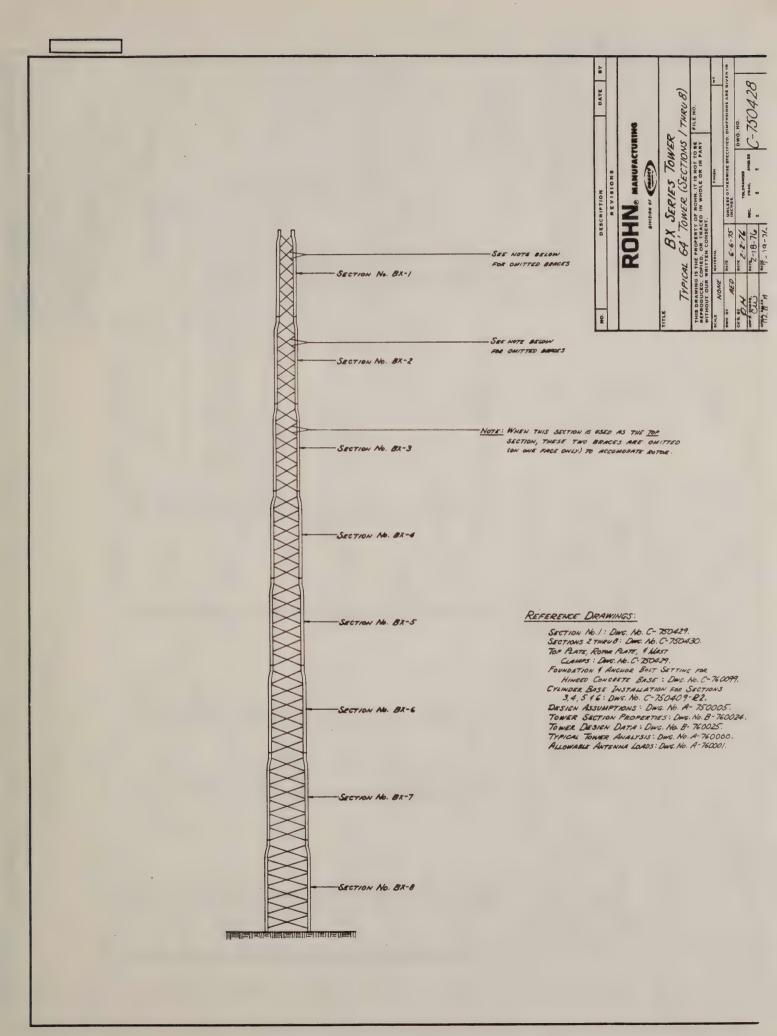
### NOTES .....

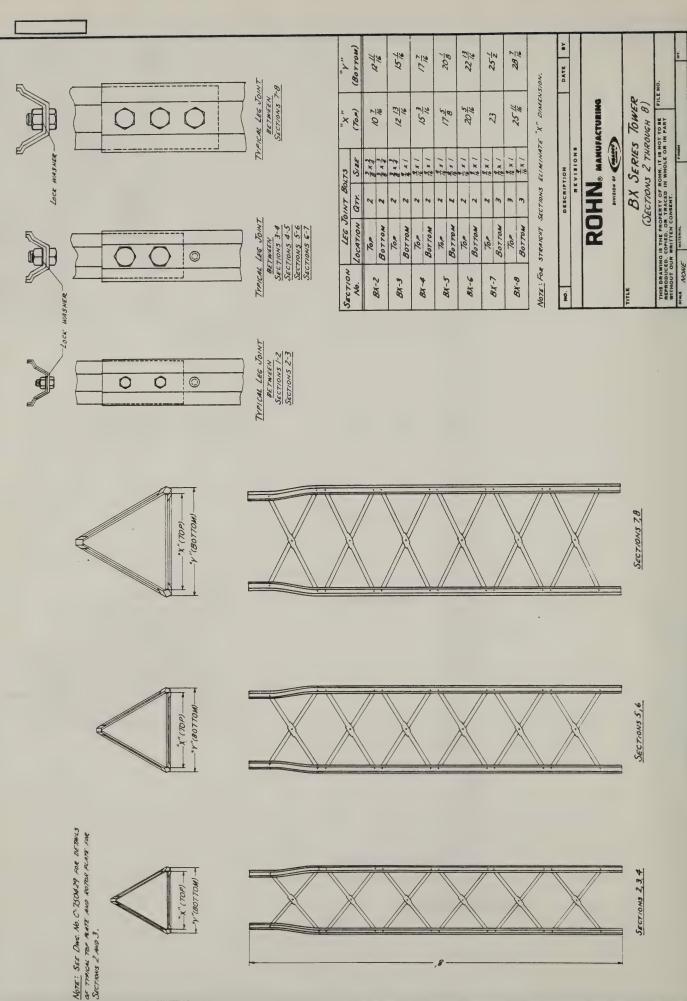
Do not install towers near power lines. All towers should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

Rohn recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers. Only one person should be on the tower at a time.

- All antenna installations must be grounded per local or national codes.
- All towers should be installed and dismantled by experienced and trained personnel.
- All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance.

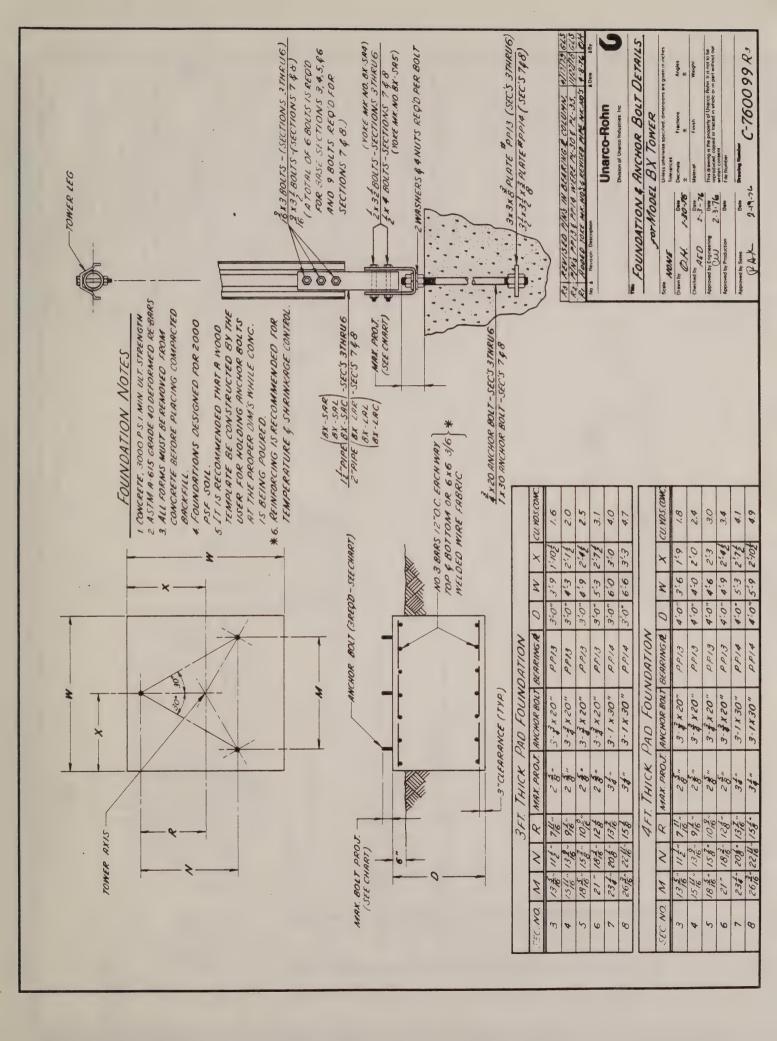


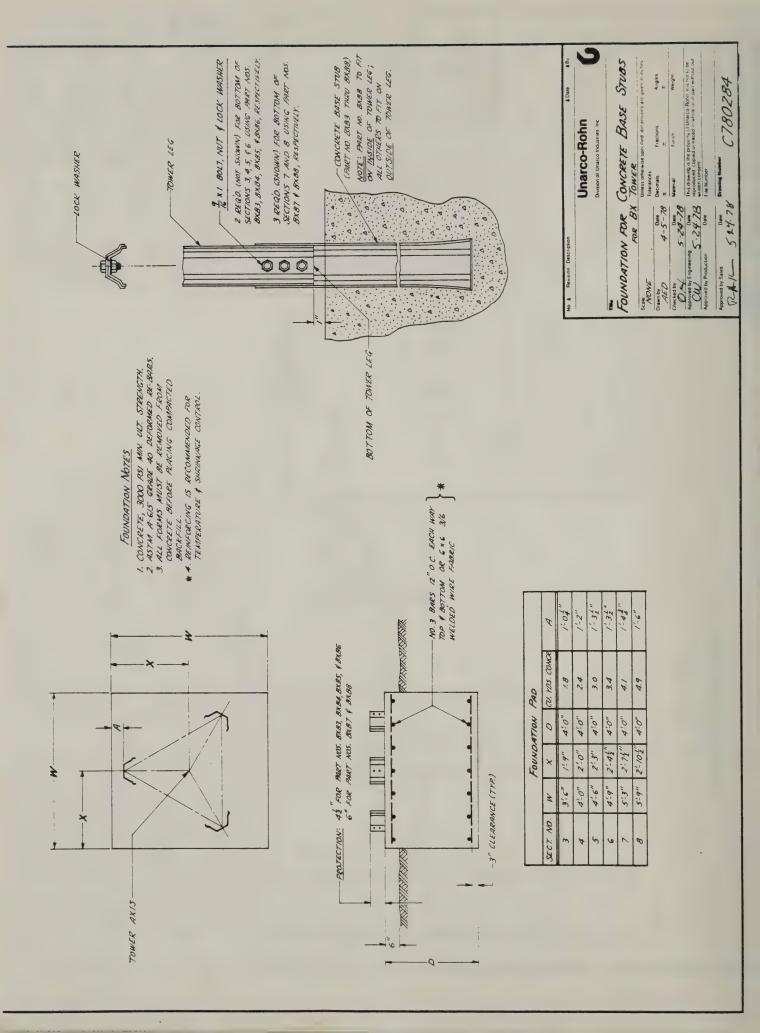


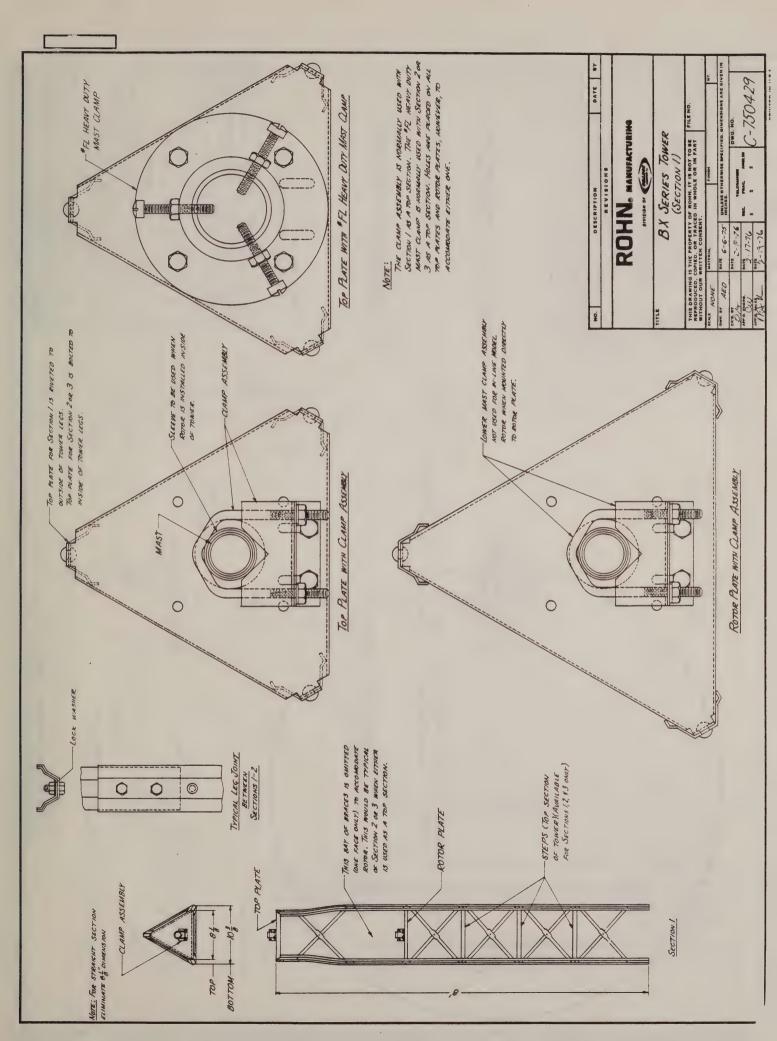


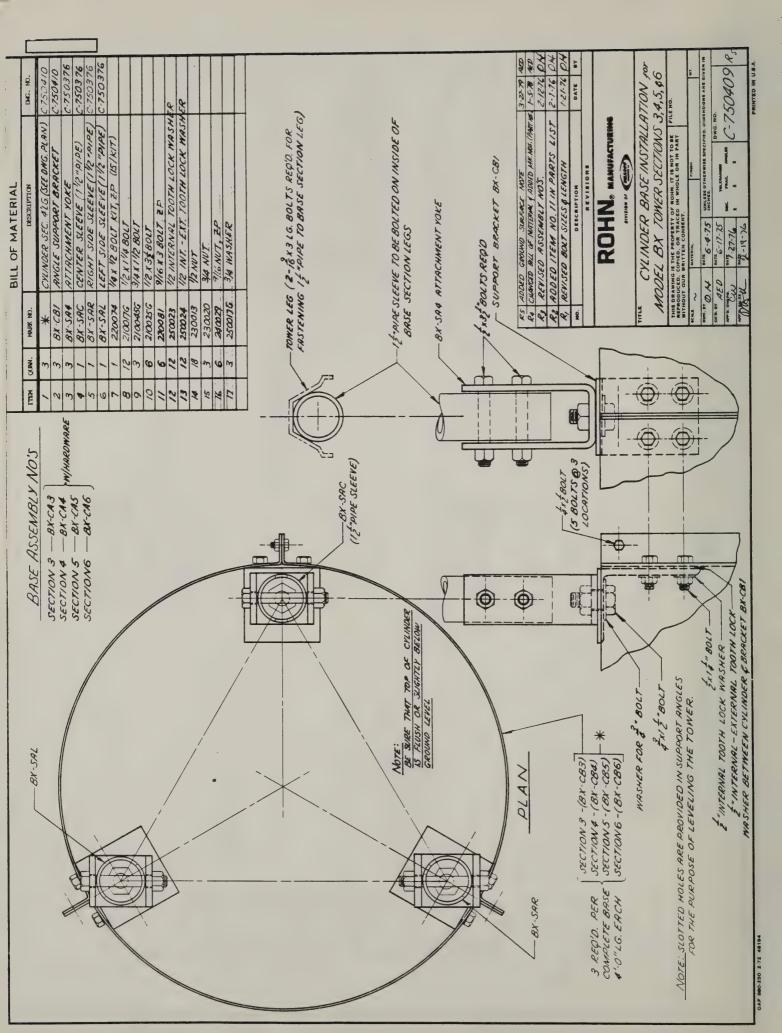
C-750430 27-71-200 Desiral. BV

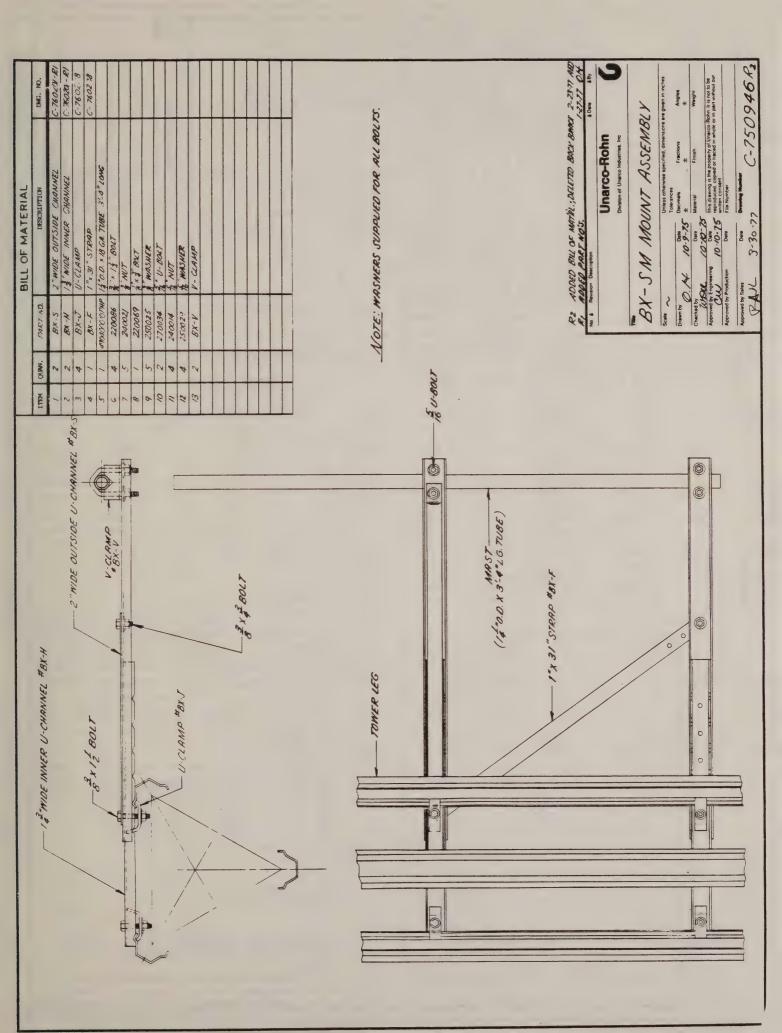
ELEVATIONS OF TYPICAL SECTIONS

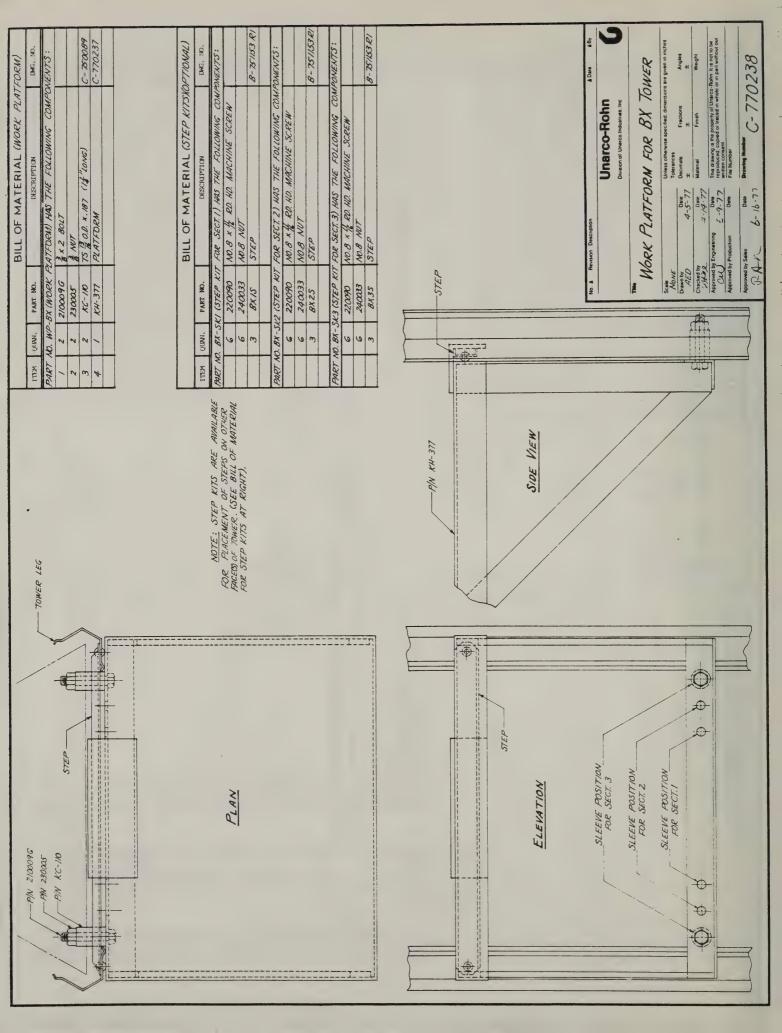












## TYPICAL TOWER ANALYSIS

TOWER DESIGN DATA: MODEL BX-64

WIND PRESSURE - 20 PSF

ANTENNA LOAD - 6 SQ. FT. AT 3 FT. ABOVE

TOWER TOP - 1 IN. LINE

ANTENNA WT. = 50 LBS.

LINE WT. = 0.5 LBS./FT.

NOTE: ANTENNAS DEVELOPING A LARGE TWISTING MOMENT DUE TO WIND MUST NOT BE USED ON THIS TOWER. ANTENNAS SHOULD BE LIMITED TO THOSE HAVING A MAXIMUM BOOM LENGTH OF

10 FT.

10 77.								
SECTION No.	8	7	6	5	4	3	2	1
DISTANCE FROM TOP (FT.)	61.7	53.7	46.0	38.3	30.7	23.0	15.3	7.7
WIND ON SECTION (185.)	179.7	161.7	150.0	139.5	115.5	107.7	101.1	96.0
WIND ON ANTENNA & LINE (LBS.	5.5	5.3	5.3	5.3	5.3	5.3	5.3	127.4
TOTAL WIND ON SECTION (LBS.)	185.2	167.0	155.3	144.8	120.8	113.0	106.4	223.4
SHEAR (LBS.)	12/5.9	1030.7	863.7	708.4	563.6	442.8	329.8	223.4
MOMENT (FTLBS.)	37,770	28,790	21,530	15,500	10,620	6770	3810	1690
FACE WIOTH (FT.)	2.284	2.047	1.824	1.602	1.381	1.184	.989	.794
.866 × FACE WIDTH (FT.)	1.978	1.773	1.580	1.388	1.196	1.025	.856	.688
LEG LOAD (LBS.)	19,100	16,240	13,630	11,170	8880	6600	4450	2460
SECTION WEIGHT (LBS.)	82	75	64	59	41	28	23	22
TOTAL WEIGHT (LBS.)	476	390	3/2	244	181	136	104	77
*LEG LOAD WITH WEIGHT (LBS.)	19,260	16,370	13,730	11,250	8940	6650	4490	2480
SHEAR ONE FACE (LBS.)	815	69/	579	475	378	297	221	150
cos Ø	.904	.883	. 858	.827	-783	. 733	.667	.580
*LOAD EACH BRACE (LBS.)3	451	39/	337	287	241	203	166	129



\* REFER TO DWG. No. B-7600 25 FOR ALLOWABLE LOADS OF MEMBERS & CONNECTIONS.

<sup>(2)</sup> SHEAR ONE FACE = .67 × SHEAR

## MODEL BX TOWER

# ALLOWABLE ANTENNA LOADS \*

## WIND PRESSURE = 20 PSF (70.7 MPH)

NOMINAL HEIGHT, FT.	COMBINATION OF TOWER SECTIONS	CATALOG NO.	AREA, SO.FT.	THRU5T, LBS.
	BX -/-2-3	8X 24	6	120
24	BX - 2-3-4	H8X 24	12	240
	BX-3-4-5	HDBX 24	20	400
	8X-1-2-3-4	8X 32	6	120
32	BX-2-3-4-5	HBX 32	12	240
	8x-3-4-5-6	HDBX 32	18	360
	BX-1-2-3-4-5	8x 40	6	120
40	BX-2-3-4-5-6	H8X 40	10	200
	BX-3-4-5-6-7	HDBX 40	18	360
	8X-1-2-3-4-5-6	8X 48	6	120
48	BX-2-3-4-5-6-7	H8X 48	10	200
	8X-3-4-5-6-7-8	HD8X 48	18	360
	BX-1-2-3-4-5-6-7	BX 56	6	120
56	BX-2-3-4-5-6-7-8	HBX 56	10	200
64	8X-/-2-3-4-5-6-7-8	BX 64	6	120

<sup>\*</sup> THIS LOAD CAN BE APPLIED AT A POINT 3 FT.

ABOVE THE APEX OF THE TOWER IN ADDITION TO

THE GIVEN WIND PRESSURE ACTING ON THE TOWER.

NOTE: ANTENNA TYPES SHOULD BE LIMITED TO
THOSE HAVING A MAXIMUM BOOM LENGTH OF 10 FT.

DWG. No. A-760001

BX TOWER

	EF-BX	T	Ti		Ti		Ti		T	Ti	Ti		T .	T	1	Γ,	Ti			_			
	EX-R1	+	+	+	+	+	H		+	+	+	+	+		Ë	l-	<del> </del>	-		١,	1		
	BX-SM	1	1	1	1,	1	1		1	١,	+	1	1	<del>                                     </del>	,	-	1	1		†	,		
	ВХ-НС-78				T	1	1		+	1		1	1			Ì	·	-		+	Ė	H	H
	ВХ-НС-36	1	1	,	1				1	1	1		$\vdash$		-	1				1	-		
	BX-CHK*	1	1	1	1		1	*Sup	 р1	ie	d v	wi	th	all	C	/l:	ind	lei	Ba	ses	I S		
	BX-CA6				1	T			Ī		T									T			
	BX-CA5			1		T			T														
	BX-CA4		1				-													1			
OPTIONAL ACCESSORIES	BX-CA3	1								1										+			
SOR	BXB-8						,			T			1					ı					
CES	BXB-7					1						1					1			$\dagger$			
AC AC	BXB-6				1						1	T				1							
NAL	BXB-5			ı						1					1					+			
TIO	BXB-4		1						1											1			
OP	вхв-3	1													Ī								
	ЕХ-Н2																					×	×
	EX-H1																Ī			×	×		
	EXDR-1																	Ī		×	×	×	×
	EX-B1						I													×	×	×	×
	M-8	×	×	×	×	×	×											Ī		×	×	×	×
	FL								×	×	×	×	×		×	×	×	×					
	BX-8						×						×				Ī	×					
	BX-7					×	×					×	×				×	×					
	BX-6				×	×	×				×	×	×		Ī	×	×	×					
	BX-5			×	×	×	×			×	×	×	×		×	×	×	×					
	BX-4		×	×	×	×	×		×	×	×	×	×		×	×	×	×					
	BX-3A									Ī					×	×	×	×					
NG.	BX-3	×	×	×	×	×	×		×	×	×	×	×										7
PIL	BXS-2																				Ī	×	XX
SHIE	BX-2A								×	×	×	×	×										
TOWERS AS PACKAGED FOR SHIPPING	BX-2	×	×	×	×	×	×													×	×	×	×
	BXS-1																				×	×	×
	BX-1A	×	×	×	×	×	×													×	×	×	×
	TOWER MODEL	24	32	40	48	56	99		24	32	40	48	56		24	32	40	48		2	3	4	5
TOWER	TOWE	BX				HBX						HDBX						EX					

For EX Tower your base is included, unless you desire Roof Mount which must be ordered separately. Be sure you select type of base and ORDER SEPARATELY for BX, HBX, and HDBX Towers. NOTE:

or the the the the boundary of the boarders of

## MODEL BX TOWER DESIGN ASSUMPTIONS

### TOWER MATERIAL SPECIFICATIONS:

LEGS: ASTM A-446 GRADE C STEEL (MINIMUM YIELD POINT - 45,000 PSI)

(GALVANIZED ACCORDING TO ASTM A-525)

BRACES: COLD ROLLED C-1017 STEEL (MINIMUM YIELD POINT - 36,000 PSI)
(GALVANIZED ACCORDING TO ASTM A-525)

LEG SPLICE BOLTS: SAE GRADE 5 STEEL

RIVETS: 2017-T4 ALUMINUM ALLOY

### TOWER MEMBER ALLOWABLE DESIGN STRESSES:

NOTE: ALLOWABLE STRESSES BELOW HAVE BEEN INCREASED
BY 33 1/4 FOR THE WIND LOAD CONDITION.

### LEGS:

COMPRESSION - (STRESS VARIES ACCORDING TO SLENDERNESS RATIO) BEARING ----- 126,000 PSI BEAR -------- 24,000 PSI

### BRACES:

COMPRESSION— (STRESS VARIES ACCORDING TO SLENDERNESS RATIO) (BEARING ——— 100,800 PS) (BEARING ———— 19,330 PS) (B

### BOLTS:

SHEAR - 29,300 PSI (THREADS EXCLUDED FROM SHEAR PLANE)

### RIVETS:

SHEAR ------- 18, 120 PSI G BEARING ------ 53,400 PSI G

O PAR. 3.1.2.1 OF A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 1968 EDITION.

Q A.I.S.C. MANUAL OF STEEL CONSTRUCTION, 7th EDITION, PGS. 5.84 \$5.86.

@ PAR. 4.5.3 OF A.I.S.I. SPECIFICATIONS, 1968 EDITION.

@ A. I. S.C. MANUAL OF STEEL CONSTRUCTION, 7TH EDITION, PG. 5.64.

@ PAR. 4.5.4 OF A.I.S.I. SPECIFICATIONS, 1968 EDITION.

© ALUMINUM CONSTRUCTION MANUAL, "SPECIFICATIONS FOR ALUMINUM STRUCTURES", 1967 EDITION.

### TOWER SHAPE FACTORS:

### INDIVIDUAL MEMBERS (LEGS, BRACES, TRANSMISSION LINES)

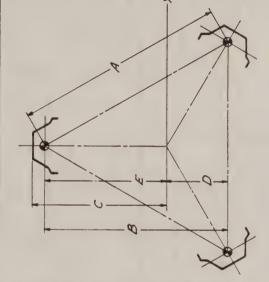
SHAPE FACTOR: 1.00 FOR FLAT ELEMENTS
.67 FOR CYLINDRICAL ELEMENTS

### TOWER SECTION:

SHAPE FACTOR: 1.50 TIMES THE PROJECTED AREA OF INDIVIDUAL MEMBERS IN ONE FACE.

# MODEL BX TOWER SECTION PROPERTIES

			201011 1011 1011		1111	0 1							
			SECT	10N PR	POPERT	SECTION PROPERTIES OF VERTICAL ELEMENTS	VERTIC	al Ele	MENT	2			
Secr	\$ C+	4 ×	D	A 3.	L IX.	H	71	AREA,	12 %	1, 8 . M	1x €	17 XX	t- 3.
8X-1	840.	1.1742	1.1742 2.0984	.7500	1.0134	1934	6661.	0699 . 6990	0689	.0236	.380	.0746	.675
BX-2	.048	1.1887	2.2145	.8286 1.0198	86/07	2114	6661.	888. 320. 5201. 8891.	7452	3570.	.388	. 3862	21/2
BX-3	BX-3 .060 1.2/51	1.2151	2.3544	.9210	1.0298	. 2330	.2068 .2228 .7333 .0346	.2228	.7233	.0346	3%	0977'	.752
BX-4	.085	1.2596	2.5441	1.0422 1.0476	92,007	.2623	.2623 .22/2	.3296 .7511 .0548 .408 .205	//2.	.0548	.408	. 2.08	808
BX-3	8001.	BX-5 .1008 1.3058 2.7661		1.1818 1.0704	1.0704	. 2967	. 2305 . 4151 . 7863 . 0742	.4151	. 7863		.423	3172	. 874
BX-6	8001.	BX-6 .1008 1.3428 2.9881	7.9881	1.3214 1.0932	1.0932	.33//	.3311 .2305 .4407 .8160 .0838	. 4407	09/8	.0838	.436	.436 3926	446.
BX-7	.1158	1.3946	3.2399	3.2399 1.4784	1.1206	3700	.2391 .5384	.5384	.822	.822 .1/06 .453	.453	25.5%	1.019
8X-8	8 -1/58	1.5780	8X-8 1/58 1.5780 3.4916 1.6354 1.1480 4089 3794 6043 9769 1.505 7810	1,63.54	1.1480	. 4089	.3794	.6043	.9769	.1540	sas.	0182.	1.137



247

235 .000620 .107 .00330

.054

2.

35.

8X-2.048

235.000620

050

2.

35.

.048

235.000620 . 107 . 00330

.054

.75

35

8X-3.048

.202

BX-4.060.35.75.0675.228.000732.104.00394

345

.139 .0/342

.307 .002/64

.//25

A6 1.05

5x-5.075

139 .01342

.307.002/64

.//25

.46 1.05

8X-6.075

.345

BX-8-075 .46 1.05 .1125 .307.002164 .139 .01342

.139 .0/342 345

BX-7.075.46 1.05 .1125 .307.002164

SECTION PROPERTIES OF DIACONAL ELEMENTS

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Sect.

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	WENCHT,	765.	22	23	28	14	28	64	75	28	4
ER		3	3.91	4.8%	5.81	6.78	7.86	8.95	10.04	11.20	2009
10M	Zx	· //	2.50	342 6.85 12.03	8.20 22.58	9.57 45.44 6.78	26.94	105.9	162.7 10.04	4777	DWG. No. 8-760024
165 01	E	*	5.30	6.85	8.20	9.57	11.10	12.64	7.09 14.18		OWG. 1
ERT.	0	<i>%</i>	2.2	342	410	4.78	5.50	6.32	7.09	797	
SECTION PROPERTIES OF TOWER	5	×	5:99	2.33	8.69	16.58 14.35 10.08 4.78		13.16 6.32 12.64	14.72	16.42 7.91 15.82	
10N 1	8	.×.	8.25	10.27	14.20 12.30	14.35	16.65	18.96		23.73	
SECT	R	///.	2.53	11.86	14.20	16.58	19.23 16.65 11.62	21.89 18.96	24.56	27.41 23.73	
	Sect (3 Lecs)	/W. <sup>2</sup>	160.	.309	.668	.989	1.245	1.322	1.615 24.56 21.27	1.813	
	Sec.		1-18	BX-2	BX-3	BX-4	BX-5	BX-6	BX-7	8.X8	
						×					

DATA
DESIGN
TOWER
BX
MODEL

												_
		W. LOAD, 185.	BRG. SHEAR BRG. SHEAR	348	348	348	200	890	890	268	068	
TA 7	TNONS	АLLOW. LOAD, 185.	Bec.	400	400	400	248	000/	1000	000/	1000	
400	ONNEC		SHEAR	76/0.	.0/92	26/0.	.0276	1640.	1600.	1640.	1650.	
ALLOWABLE LOADS AT	DINGONAL CONNECTIONS			.0075	.0075	.0075	2//0.	. 0/87	.0187	7810.	18/0.	
A110.	JIAGO	TWEK.	BRACE,	840.	.048	.048	090.	.075	.075	.075	.075	
	7	RIVET	01.4" Beace, 1N. 1N.	श्र	37.0	श्र	e  %	-14	- 4	- 4	-14	
ALLOWABLE LOADS AT	VERTICAL LEG SPLICES	ALLOWABLE TENSILE	OF LEG, LEG SOLICE IN. CAPACITY LBS.	5630	28/0	73.20	0/6'01	13,870	14,880	18,340	20,910	
WABLE	ICAL LE	THICK.	st LEG, IN.	.048	.040	.000	.086	. 1008	.1008	95//	.//58	
A110.	VERT			wles	20	6 9	012	016	0   %	01%	6 2/	
Ì		SPLICE BOLTS	No. 014.	2	7	2	7	2	7	3	3	
WIND LOAD PER SECT, 185.	SURE OF		20 PSF	0.96	101.1	107.7	115.5	139.5	1500	17791	179.7	
AD PER	AT WIND PRESSURE OF		15 rsr	72.0	75.8	80.8	9.98	104.6	112.5	121.3	134.8	
WIND LO	AT WI		10 PSF	48.0	5a6	53.9	57.8	8.69	75.0	80.9	89.9	
. •	TOTALS	TOTAL Exposed	SECTION AREA FT. 2	4.800	5.055	5.385	5.775	6.975	7.500	8.085	8.985	
	76)	TOTAL TOTAL EXPOSED EXPOSED	AREN (1 FACE) FT. <sup>2</sup>	3.20	3.37	3.59	3.85	4.65	5.00	5:39	5:49	
	5	EXPOSED		06.	66.	1.09	61.1	1.83	2.02	2.21	2.45	
PROJECTED AREAS	DIAGONALS	TOTAL WIGHTU EXPOSED	LENGTH (1 FACE) IN.	173.4	190.5	209.2	229.0	25//6	276.6	303.8	335.6	
FCTED		Word	). 	.75	.75	.75	.75	1.05	1.05	1.05	1.05	
PROS	19	Expased	<u> </u>	2.30	2.38	2.50	2.66	2.82	2.98	3.18	3.54	
	VERTICAL LEGS	Exposed Exposed	(//169)	1.15	61.1	1.25	/.33	141	1.49	1.59	1.77	
	VERTIL		(//ec.	96	96	96	%	96	96	96	96	
		Exposed	(/ 159)	1.73	1.79	1.87	1.99	2/2	2.24	2.39	2.65	
		Sect.		1-X8	BX-2	BX-3	BX-4	BX-5	9-X8	BX-7	8×-8	

		VER	2/2	VERTICAL LEGS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALLOWABLE COMPRESSIVE LOADS  SECT. ALLOWABLE  LOADS  LOADS	MPRES	7.	Longs	DIACONAL BRACES	BRAC	Ceoss- Secr.	
4 1 8 1	38/		23/2		HREA (1/EG) IN. <sup>2</sup>	MRES LEG LOAD, (1/Leg) 185. IN. <sup>2</sup>	¥.	*	110 *	r. 28/		AREA IN.Z	5)84CE LOAD, LBS.
.380 32.9 24,300 32,400	32.9 24,300 32,400	24,300 32,400	32,400		./637	5300	15.34	101.	7:17	16,250	21,660	.054	1170
.388 32.2 24,380 32,500	32.2 24,380 32,500	24,380 32,500	x; sw		8691.	5520	16.78	101.	78.4	15,540	20,720	.054.	1/20
.394 31.7 24,430 32570	24,430 32,570	24,430 32,570	32.570		8777	7260	18.41	701.	86.0	14,670	19,560	.054	0901
121 .408 30.6 24,540 32,710	24,540 32,710	24,540 32,710	32,710		.32%	10,780	20.16	100	6.96	13,360	17,810	.0675	1200
.423 29.6 24,650 32,870	29.6 24,650	24,650			.4/5/	13,640	22.22	139	79.9	15,370	20/4/D	. 1/25	23/0
.436 28.7 24,740 32,990	28.7		32,990		.4407	14,540	24.41	139	87.8	14,560	19,410	3///	2/80
.453 27.6 24,850 33,130	27.6 24,850	24,850			.5384	17,840	26.66	139	95.9	13,490	17,990	57//	2020
.505 24.8 25,130 33,510	24.8 25,130 33,510	25,130 33,510	33,510		. 6043	20,250	56.19	661.	105.0	.139 105,0 12,330 16,440	16,440	.//25	1850
								1	1, 1,				

\* 7'= 7'2

### ROHN

### MAST ASSEMBLY BX - STANDARD // HBX - HEAVY DUTY // HDBX - EXTRA HEAVY DUTY TOWERS

- Two U-bolt assemblies with "L" brackets are supplied for installing the mast. These "L" brackets are bolted through the slotted holes on the rotor and top plate with the short legs of the "L" bracket toward the outside of the tower.
   See Drawing C-750429.
- Run the U-bolt through the open side of the formed "V" clamp and into the "L" bracket placing the 5/16" nuts and washers on the U-bolt loosely.
- 3. To install the mast, place one end of it through the upper U-bolt assembly end plate and slide it down into the lower U-bolt assembly. Then tighten the U-bolt assembly to hold the mast.
- 4. Adjustments to make the mast vertical may be made by moving the "L" brackets in the slotted holes.

The HBX - Heavy Duty and HDBX - Extra Heavy Duty Towers are furnished with a mast clamp installed on the top plate made from a pipe floor flange, which is provided with three bolts to be used as set screws to secure the mast. The box of hardware consists of one U-bolt assembly as described above and it can be installed on the lower plate as is instructed above, if required.

### ASSEMBLY INSTRUCTIONS

### BREAKING DOWN BUNDLE

- If your tower includes the 8' mast and/or three 4' base stubs, remove them. Remove the package of nuts, bolts, and washers.
- Lay the bundle on its side and remove the tower sections. Start with the innermost section of the package (the smallest section) and remove by pulling out with quick, firm jerks. It is not necessary nor desirable to pry the tower sections out with tools as damage may result.
- 3. Inspect all tower sections on delivery to make sure there are no loose or broken rivets caused by transport mishandling. If a rivet is broken or loose, it should be replaced by a snug-fitting machine bolt and nut, securely tightened.

### TOWER

After you have chosen the desired type of base for your tower (concrete base with BXB concrete base stubs, BXHC hinged concrete base, or BXCA cylinder base which hinges over and requires no concrete) and it is properly installed per base instructions, bolt the base section (the largest section) to the base. Proceed with the erection as follows:

- 1. The legs on each higher section slide inside the previous one and should be positioned on the rivet stop in the previous leg. (This rivet stop is to prevent the tower section being installed from slipping through the previous section and is not for the purpose of aligning the assembly holes.) (Special Note: The BX8 section does not have a rivet stop in it, so extreme caution should be used when installing the BX7 section into the BX8 section.) Proceed by bolting together each section with the proper size bolts.
- 2. To erect the tower, section by section vertically, you should use an EFBX erection fixture for raising and locating the section being installed into the previous section. (Note: Do not use an erection fixture to lift more than the weight of one tower section at a time.) By using BXHC or BXCA base the tower can be assembled on the ground and hinged up using extreme caution. When hinging up, watch for power lines, trees, etc.
- Loose, missing or faulty rivets should be replaced with a similar size nut and bolt which can be obtained at any local hardware store.

NOTE: 3/8" bolts are to be used on BX1, BX2 and the top of BX3 sections. 9/16" bolts are used on the bottom of the BX3 and all sections from BX4 through BX8 (BX8 is the largest section).

One set of cross braces on one face of the top section is purposely left off to allow easy access to the rotor plate for installing the mast and rotor. (Note: Only one person should be on the tower at one time.)

CAUTION ... Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower over. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any hinged type base, the loads applied for hinging the tower must be applied equally on both sides of the tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

### NOTES ON INSTALLING ROTATORS

Most all makes of rotators can be installed on the rotor plate inside the top tower section of the BX standard towers. There is a short piece of tubing furnished with each tower that can be used as a thrust bearing (for 1-1/4" mast) with the mast clamp installed on the top plate as is described under the heading of Mast Assembly. Do not install rotators on the HDBX top plate.

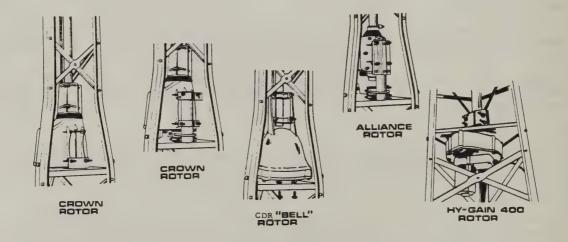
For the HBX - Heavy Duty and HDBX - Extra Heavy Duty Towers, when a rotator is used a 4" piece of tubing or pipe with an I.D. larger than the O.D. of the mast can be installed in the pipe flange clamp and used as a bearing sleeve for the mast to turn in.

### FOR INSTALLING THE ROTATOR ITSELF, FOLLOW THE PROCEDURES OUTLINED BELOW:

Some inline model rotators mount directly to the rotor plate. (The lower housing of the rotator is not used when this is done.) The necessary holes for mounting most rotors are pre-punched in the plate itself and the bolts furnished to bolt the lower housing to the upper housing  $(4-1/4" \times 1" \text{ bolts})$  are to be inserted from the bottom of the plate upward and into the rotor. It is desirable to place 3/8" nuts to act as spacers between the rotor plate and the rotator.

These nuts will prevent the terminals of the rotator and the rotor wire from shorting on the rotor plate. An 8" piece of tubing is furnished with each tower. It can be installed into the clamp ("V" clamp and "L" shaped brackets furnished for offset rotor installation only) for the offset type rotors. It is necessary to reverse the clamp assembly (to face outside of the tower), opposite that of installing a standard mast to the rotor plate. Some rotators can be mounted directly to the "L" shaped bracket as shown or to the 8' mast as previously described.

Also, some rotators mount beneath the rotor plate (as pictured). It will be necessary to increase the 1/4" holes in the rotor plate to 3/8" holes to use the 3/8" bolts furnished with these rotators. See pictorial views of typical rotor installations:



In all cases be careful during installation.

\*\*\*\*\*\*\*

### NOTES ....

Do not install towers near power lines. All towers should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

Rohn recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers. Only one person should be on the tower at a time.

All antenna installations must be grouned per local or national codes.

All towers should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance.

# STRESSES IN VERTICAL MEMBERS

THE LONGITUDINAL STRESS IN THE WIND IS NORMAL TO THE WINDWARD FACE OF THE TOWER AND A SINGLE MEMBER IS IN THE POSITION OF THE COMPRESSION CHORD. IN THIS CASE, THE SINGLE COMPRESSION VERTICAL IS THE CRITICAL MEMBERS. THE LONGITUDIMAL STRESS IN THE CRITICAL VERTICAL MEMBER MAN BE TRKEN AS

$$f = \frac{1}{A} \left( \frac{12M}{d} + \frac{\rho}{3} \right)$$

A = CROSS-SECTIONAL AREA OF ONE VERTICAL, IN. WHERE M = BENDING MOMENT DUE TO WIND ON TOWER, ANTENNA, AND CORKIAL LINE, FT-LBS.

O = ALTITUDE OF TOWER TRIANSE, IN. (SEE DIMENSION B ON CHART SYOWING CROSS-SECTION OF TOWER).

### P = AXIAL LOAD, LBS.

THESE STRESSES ARE COMPUTED FOR THE BASE OF EACH TOWER SECTION IN THE FOLLOWING TABLE. THE AMAL LOAD, P., INCLUDES THE AMELIE OF ALL SECTION IN QUESTION, PLUS AN ALLOWANCE OF SOLESSES, SECTION IN QUESTION, PLUS AN ALLOWANCE OF SOLESSES, PROPERTY AND ALLOWANCE OF SOLESSES, PLUS THE WEIGHT OF THE COAMAL LIME. THE THREE BEINM IS BASED UPON A WIND PRESSURE OF IS LES. PER SO.FT.

		STRE	SSES M	VERTIC	CALS (AT	BASE O	STRESSES IN VERTICALS (AT BASE OF SECTION)	3	
SECTION		o,	Q.	M. *	200	12M	P + RM	f,	ALLOW.
	(//e/c/	.W.	185.	FT-185.	185.	.282	787	ps/	180
AX-1	./320	8.35	×	624	25	268	922	0869	25,130
AX-2	./380	15:01	26	1543	32	1762	1794	13,000	25,510
AX-3	008/	12.48	121	2949	90	2836	2876	15,980	25,400
AX-4	.239/	14.39	154	407/	ج/ د	4062	4113	002'11	25, 680
AX-5	1557.	76.52	861	7364	99	5364	5430	21,450	25,920
AX-6	.2672	18.75	245	110,577	28	6269	1589	25,640	28, 280
AX-7	.4462	20.83	3/0	14,525	60/	8368	8471	18,980	26,790
AX-8	.4725	23.47	382	19,520	127	0866	10/07	21,390	26,810
				40	o process	050 05611	TO CO C SO COMMENT OF SO SO ST	22 67	-

# STRESSES IN DIACONAL MEMBERS

THE STRESSES IN THE DIAGOUAL BEACES ARE DUE TO THE SHEAR CARE OF THE SHEAR IT CALLMAN IT CALLMAN IT THE SHEAR IN EACH OF THE CALLQUE FREES OF THE TOWER HAY DESTRUEN AS

WHERE H IS THE TOTAL HORIZONTAL SHEAR ON THE TOWER AT THE SECTION UNDER CONSIDERATION.

SINCE THE X-BRACES ARE SPACED VERTICALLY AT 18.75 INCHES (SEE FIG. 2), THE VERTICAL COMPONENT OF THE FORCE (FIG. 3) CARRIED BY A PAIR OF DIAGONALS 15

 $V = S(tan\theta) = S(\frac{18.75}{6})$ BUT S = . 577 H

(CONTINUED)

# STRESSES IN DIAGONAL MEMBERS (CONT.)

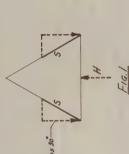
:  $V = .577H(\frac{18.75}{0}) = 10.82(\frac{H}{0})$ 

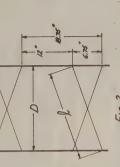
THE AKIAL LOAD, Q, IN EACH DIAGONAL CON THEN BE DETERMINED AS FOLLOWS:

Q = 1/12 ; OR Q = 1/12/

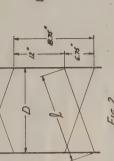
SUBSTITUTING VALUE OF V FROM ABOVE, Q = 10.82 (#/1) = .8H(1)

THE AXIAL STRESS IN EACH DIAGONAL IS THEN GIVEN OF F= 9









THE ASSAURTS AND STRESSES IN THE DIRECHALS AT THE LOWER ENDS OF THE RESPECTIVES ARE CHANCED IN THE FOLLOWING THREE.

THESE VALUES ARE BASED UPON A WIND PRESSURE OF 15 SER FRE SRIFT AND IN ASSEMBLE ON TENNES OF 15 SER FRE F16.2

F16.3

	ALLOW.	23,960	22, 280	21,770	20,070	2,930	20,610	ass'w	06521
	f. Ps/	1650	2560	3520	3670	2820	3480	4/60	0/05
STON	0,	88	/36	06/	240	3/7	39/	446	583
DIAGO.	H, Es.	68	121	3/6	502	370	462	229	189
STRESSES IN DIAGONALS	AREA, IN.Z	.054	.054	.054	.0675	.1125	.1125	.//25	.1125
STRE.	Ď, ži	8%	12.6	138	6:51	18.1	20.8	23.8	26.5
	A, 3.	11.6	14.4	15.2	17.2	19.4	22.0	24.0	27.4
	SECTION	AX-1	AX-2	AX-3	AX-4	AX-5	9-XH	AX-7	AX-8

FROM THE FOREGOING CALCULATIONS IT IS SEEN THAT THE ACTUAL STREETS IN THE DIAGONALS DUE TO THE SPECIAL STREETS WITCH THE CALLOWINGER STRESSES.

### SHEET 4 OF 4

## LOADS AT VERTICAL SPLICES

THE VERTICALS ARE STAICED BY SAFE CRABE 5 HIGH STRENCTY STEEL BOLTS OF THE SILES AND NUMBERS HOLICATED. THE SILEAR AND BERRAIN STREAMS THE SILEAR AND SERVICED STREAMS THE SILEAR AND SILEAR AND SILEAR AND SILEAR STREAMS. THE ALLOWABLE COMPLETS HE STRESS OF RESERVENCES HE STRESS THE MARKETIAL HOWING A YILLO STREAMS THE ALLOWABLE COMPLETS ON 165 CERCES TO BE STRESS TO BE WIND COMPLETY OF BOOD AND STRESS OF THE MEMBER IS DANOTED BY THE MEMBER IS DANOTED BY THE MEMBER IS DANOTED AND PRESSURE HAS STREAM THERE IS NO THIS TRABLE AND THE OWN STEDMY THE APPLICATION OF SILEAR AND THE OWN STEDMY THE

	APPLIED	1040, 185.	920	1790	2880	4110	5430	0589	8470	10,110
	100, 185.	SHEAR	2870	29.70	005'11	11,500	005'11	11,500	17,270	17,270
	AREA (1 SPLICE), IN. ALLOW. LOAD, LBS. APPLIED	BEARING	2440	2440	0//9	7630	7630	7630	16,030	16,030
PLICES	:/CE), IN:	SHEAR	860.	860.	.392	.392	3%5.	.392	.589	.589
LOADS AT VERTICAL SPLICES	AREA (1 SPL	BEARING	.024	.034	090.	.075	320.	520.	.1575	1575
S AT VEN	4)	IN.	940.	.048	090.	210.	.075	.075	./05	501.
7000	80175	DIA., IN.	-14	-14	-14	-14	- 14	-14	-[14	-12
	708	No.	d	4	N	2	N	7	m	(1)
		DECT/ON	AX-1	AX-2	AX-3	AX-4.	AX-5.	9-XB	AX-7	8-XA

# LOADS AT DIAGONAL CONNECTIONS

THE DIAGONAL BRACES ARE ATTRICHED TO THE VERTICALS BY 2017-74 ALUMINUM ALLOY RIVETS HAVING BASIC ALLOMABLE SHERE AND BECARING STACKES OF BY ONE THE RESPECTIVELY. THESE ALLOMABLE STRESSES OF BY ONE THEIR DISCUSSION CAND COMMETTON.
THE ALLOMABLE LOADS AND AMOUNT OF THE WINNEY AS THE AUTHORITYS OF THE DIAGONALS ARE COMMETTON.
THE MATHEMATICATION CARLOWS AND AMOUNT STALE ASSOCIATION ARE THE COMMET AS SOCIATION AND A RESULTING OF A RIVET, AS SOCIATION PREVIOUSLY, IS VILLES WALLES ARE LISTED AS THE AMOUNTS LOADS IN

THE TABLE.

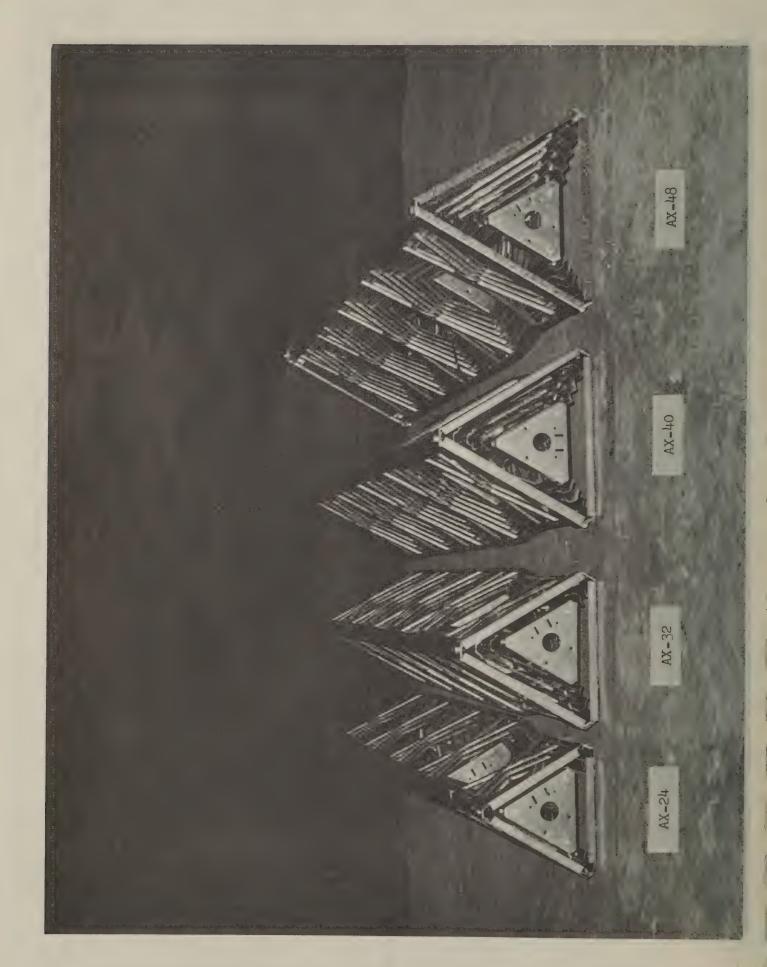
ALLON LOAD , LAS . APPRIED 20062.  270 25% 19% 130 270 25% 189 195 405 368 221 2806 2405 2405 2405 2405 2405 2405 2405 2405
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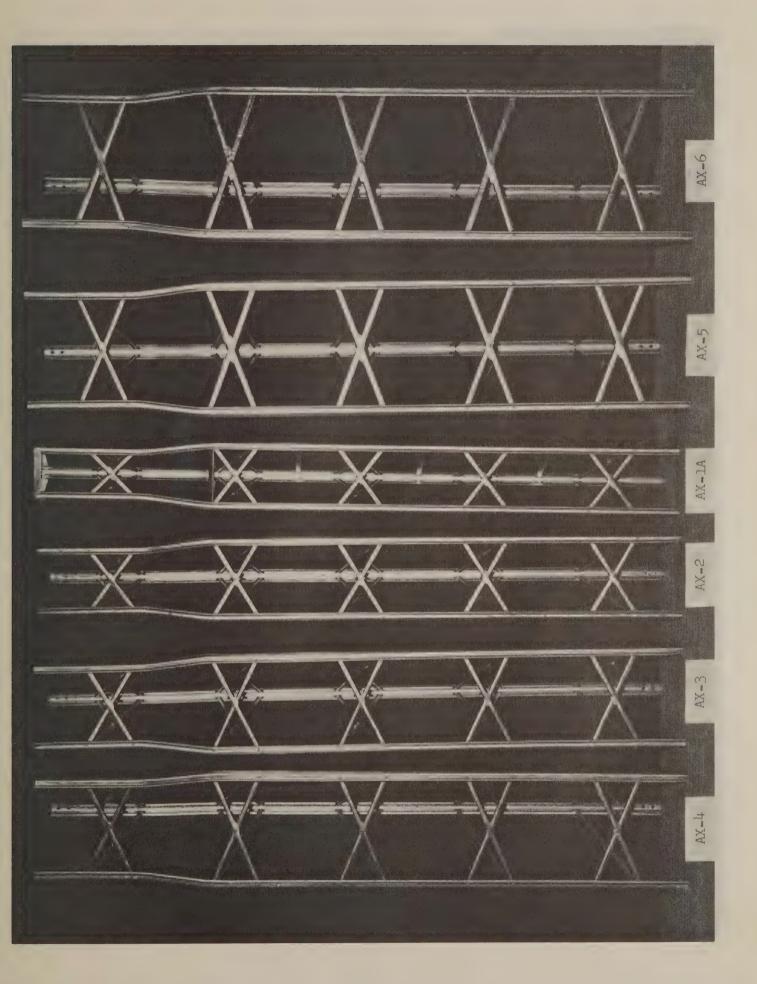
# ALLOWABLE ANTENNA LOADS AT VARIOUS WIND PRESSURES

(CAMBINATION of PRESSOURS AND PRESSOURS A		And the state of t			ALLOW	BLE AN	TENNA L	* SOBO	
Charles Sections   Charles   Corrected   Constitution   Charles   Constitution   Charles   Constitution   Charles   Constitution   Charles   Cha			CATALOG NO.			WIND PR	ESSURE		
ANY-1         ANY-1 <th< td=""><td>NOMINAL</td><td>COMBINATION OF</td><td>FOR STANDARD</td><td>10 PSF(SC</td><td>(HJW</td><td>15PSF (C</td><td>(Z MPH)</td><td>20 PSF( 7</td><td>(HAML)</td></th<>	NOMINAL	COMBINATION OF	FOR STANDARD	10 PSF(SC	(HJW	15PSF (C	(Z MPH)	20 PSF( 7	(HAML)
MY-1         MY-2         LSS         TY-2         TY-2 </th <th>nelett,</th> <th>JOWER DECTIONS</th> <th>MCKAGED TOWERS</th> <th>AREA,</th> <th>THRUST,</th> <th>AREA.</th> <th>THRUST,</th> <th>AREA,</th> <th>THRUST.</th>	nelett,	JOWER DECTIONS	MCKAGED TOWERS	AREA,	THRUST,	AREA.	THRUST,	AREA,	THRUST.
RE.1         RE.3         RE.3 <th< th=""><th>FT.</th><th></th><th></th><th></th><th>7.85.</th><th>FX2</th><th>183.</th><th></th><th>183.</th></th<>	FT.				7.85.	FX2	183.		183.
RES         RES         SSS         SSS         RSS         RSS <td></td> <td>AX-1</td> <td></td> <td>11.9</td> <td>611</td> <td>7.5</td> <td>1/2</td> <td>5,3</td> <td>901</td>		AX-1		11.9	611	7.5	1/2	5,3	901
NY-3         358         358         351         351         172           NY-4         NY-5         681,1         611,1         612,4         613,1         173 <t< td=""><td></td><td>AX-2</td><td></td><td>15.3</td><td>153</td><td>4.7</td><td>MS</td><td>6.9</td><td>/30</td></t<>		AX-2		15.3	153	4.7	MS	6.9	/30
AIX-5         AIX-6         AIX-6 <th< td=""><td></td><td>RX-3</td><td></td><td>35.8</td><td>3508</td><td>23.4</td><td>35/</td><td>77.2</td><td>344</td></th<>		RX-3		35.8	3508	23.4	35/	77.2	344
AIT-5         AIT-6         AIT-6 <th< td=""><td></td><td>AX-4</td><td></td><td>58.3</td><td>500</td><td>37.0</td><td>5555</td><td>27.3</td><td>546</td></th<>		AX-4		58.3	500	37.0	5555	27.3	546
ART-6         ART-6         ART-6         ART-7         ART-7         ART-1         ART-1 <th< td=""><td>D</td><td>AX-S</td><td></td><td>1.69</td><td>169</td><td>45.4</td><td>189</td><td>33.6</td><td>219</td></th<>	D	AX-S		1.69	169	45.4	189	33.6	219
ART-0         WILO         WICO         WICO <t< td=""><td></td><td>AX-6</td><td></td><td>84.2</td><td>240</td><td>\$55.4</td><td>188</td><td>41.1</td><td>822</td></t<>		AX-6		84.2	240	\$55.4	188	41.1	822
ART - 3         ART - 3         ART - 4         ART - 4         ART - 1         ART - 1 <t< td=""><td></td><td>AX-7</td><td></td><td>161.0</td><td>0/9/</td><td>106.5</td><td>1657</td><td>78.3</td><td>1586</td></t<>		AX-7		161.0	0/9/	106.5	1657	78.3	1586
AR-2-3         AR-2-4         AR-3-4         AR-3-4<		9x-8		187.4	1874	124.1	1981	92.5	1850
AR-2-3         AR-2-4         AR-2-4<		AX-1-2		7.3	7.3	3.8	27	2.1	42
AY-3-4         AY-3-3-4         AY-3-4         AY-3-4         AY-3-4         AY-3-4         AY-3-4         AY-3-3-4         AY-40         AY-3-3-3         AY-40		AX-2-3		15.3	153	2.3	HS	6.9	138
ANY -5         ANY -5<		11.3-4		32.5	325	20,5	307	MS	240
AN-5-6         APP   A	9/	AX-4-5		40.2	405	25.5	382	18.2	364
AP. 6-7         AP. 24         AP. 27		AX-5-6		160	164	3/.2	894	22.3	146
AR-24         AR-24         AR-24         AR-24         AR-24         AR-24         AR-24         AR-24         AR-24         AR-28         AR-28 <th< td=""><td></td><td>AX-6-7</td><td></td><td>27.48</td><td>842</td><td>35.4</td><td>93/</td><td>41.1</td><td>822</td></th<>		AX-6-7		27.48	842	35.4	93/	41.1	822
AX-23-4         AY-24         7.3         73         3.6         57         8.1           AX-23-4         AX-23-4         AX-23-4         AX-23-4         AX-23-4         AX-23-4         AX-1         Z61         15.5         232         AX-1		AX-7-8		1/3.6	//36	73.8	1107	54.0	1000
AX-23-4     AS-3     153     17     465     6.9       AX-3-45     AX-3-45     AX-1     261     15.5     222     10.1       AX-4-5-6     AX-3-45     AX-3-2     AX-3-3-3     17.3     3.0     47     17.9       AX-5-6-7     AX-3-4-5-6     AAX-32     AX-3-2     AX-3-2     AX-3-2     AX-3-3-3     17.3     3.0     57     2.1       AX-5-5-7     AX-4-5-6     AAX-40     A3-3     A3-3     32.3     A4-3     48-3     48-3       AX-5-5-7     AX-40     AX-40     A3-3     A3-3     A3-3     A3-3     A3-3     A3-3       AX-5-5-7     AX-40-6     AX-40     A3-3     A3-3     A3-3     A3-3     A3-3       AX-45-6-7     AX-40     A3-3     A3-3     A3-3     A3-3     A3-3     A3-3       AX-45-6-7     AX-40     A3-3     A3-3     A3-3     A3-3     A3-3     A3-3       AX-45-6-7     AX-40     A3-3     A3-3     A3-3     A3-3     A3-3     A3-3       AX-3-4-5-6-7     AX-40     A3-3     A3-3     A3-3     A3-3     A3-3     A3-3     A3-3       AX-1-2-3-4-5-6-7     AX-5-4-5-6-7     AX-5-4-5-6-7     AX-5-4-5-6-7     AX-5-4-5-6-7     AX-5-4-5-6-		AX-1-2-3	AX-24	7.3	73	3.8	57	2.1	42
AX-3-6-5         AX-1         26/1         16.5         33.2         70/1           AX-6-5-6         AX-6-5-6         AX-3         33.2         17.6         37.2         46.9           AX-6-7-8         AX-6-7-8         AX-32         X3.3         13.2         46.9         22.3           AX-6-7-8         AX-3-4-5         X3.3         X3.3         X3.2         46.8         22.3           AX-5-6-7-8         AX-4-5         X3.3         X3.3         X4.6         22.3         X3.5         X3.5           AX-5-6-7-8         AX-40         X3.3         X3.3         X4.6         X3.3         X3.5         X3.5           AX-5-6-7-9         AX-40         X3.3         X3.3         X4.6         X3.3         X3.3         X3.5		AX-2-3-4		6.3	8391	2.6	145	6:9	138
AX.4.5.6.7         AX.3         33.3         AX.4         AY.1         AY.1         AY.1         AY.2	;	AX-3-4-5		7.7	797	15.5	232	10.1	202
AX-5-6-7         AY 1         AY 1         AY 1         AY 2         AY 2         AY 3           AX-5-3-4         AX-32         7.3         7.3         7.3         7.3         7.3         3.6         57         2.1           AX-5-3-4-5         AA-32         7.3         7.3         7.3         7.3         7.3         4.6         57         2.1           AX-5-3-4-5         AA-32         7.3         7.3         7.3         7.3         4.6         6.7         4.6         6.7         4.6         6.7         4.6         6.6         4.6         6.6         4.6         6.6         4.6         6.6         4.6         6.6         4.6         6.6         4.6         6.6         4.6         6.6         4.6         6.8         7.3	47	AX-4-5-6		32.3	323	19.4	762	12.9	728
AX - 5 - 6         AX - 32         A3 - 36 - 57         A4 - 56 - 57		AX-5-6-7		1.66	164	3/.2	468	22.3	446
AX-23-4     AX-32     7.3     7.3     7.3     7.9     7.1       AX-3-4-5     HAX-32     16.3     16.3     16.3     16.3     16.4     178     6.8       AX-3-4-5-6     HOX-32     22.0     22.0     11.9     178     6.8       AX-4-5-6-7     HOX-40     7.3     32.3     17.4     27.1     7.1       AX-2-3-4-5-6     HAX-40     7.3     73     3.8     5.7     3.1       AX-4-5-6-7     HAX-40     7.3     73     3.8     5.3     3.1       AX-4-5-6-7     HAX-40     7.3     73     2.3     34        AX-4-5-6-7     HAX-40     7.3     7.3     3.3     34        AX-5-6-7     HAX-40     7.3     7.3     3.3     34        AX-5-6-7     HAX-40     7.3     7.3     3.4        AX-2-4-5-6-7     HAX-40     7.3     7.3     34        AX-1-2-3-4-5-6-7		DX-6-7-8		78.4	784	2.60	7	35:0	200
AX - 3-5-5     AX - 3-5-5 <td></td> <td>カイトルテム</td> <td>AX-32</td> <td>7.3</td> <td>7.3</td> <td>3.8</td> <td>23</td> <td>2.1</td> <td>42</td>		カイトルテム	AX-32	7.3	7.3	3.8	23	2.1	42
AX-3-4.5-6     AOX-32     22.0     22.0     11.9     178     6.0       AX-4-5-6-7     AX-40     7.3     32.3     18.4     27     22.3       AX-5-6-7-8     AX-40     7.3     73     3.2     46.9     22.3       AX-2-3-4-5-6     AX-40     7.3     73     3.2     46.9     22.3       AX-3-4-5-6-7     AX-40     7.3     3.3     7.4     7.7     2.1       AX-2-3-4-5-6-7     AX-49     7.3     3.3     7.4     2.3     3.4        AX-1-2-3-4-5-6-7     AX-49     7.3     7.3     7.3     3.3     3.4        AX-1-2-3-4-5-6-7     AX-6-6-7     AX-7-6-7     AX-7-6-7     AX-7-6-7     AX-6-7     AX-7-6-7     AX-7-6-7     AX-7-6-7     AX-7-6-7     AX-7-6-7     AX-7-6-7     AX-7-6-7     AX-7-6-7 <t< td=""><td></td><td>AX-23-4-5</td><td>HAX-32</td><td>15.3</td><td>55/</td><td>9.0</td><td>135</td><td>4.8</td><td>%</td></t<>		AX-23-4-5	HAX-32	15.3	55/	9.0	135	4.8	%
AK-4-5-6-7     AK-4-0     AR-1     AR-1     AR-1     AR-1     AR-1     AR-2     AR-2<	32	AX-3-4-5-6	HOX - 32	22.0	220	611	178	6.9	136
AX - 5 - 7-8     AX - 40     7.3     7.3     3.1     468     22.3       AX - 2 - 5 - 5 - 5     AX - 40     7.3     7.3     7.3     7.3     7.1       AX - 2 - 5 - 5 - 5     AX - 5 - 5 - 7     AA - 40     7.2     7.2     7.3     7.3       AX - 2 - 5 - 5 - 7     AX - 40     7.3     7.3     7.3     7.3     7.3       AX - 2 - 5 - 5 - 7     AX - 40     7.3     7.3     7.3     3.4        AX - 2 - 5 - 5 - 7     AX - 40     7.3     7.3     7.3     3.4        AX - 2 - 5 - 5 - 7     AX - 40     7.2     7.2     7.3     3.4        AX - 2 - 5 - 5 - 6 - 7     AX - 40     7.3     7.3     7.3     3.4        AX - 2 - 5 - 5 - 6 - 7     AX - 40     7.2     7.2     7.3     3.4        AX - 4 - 5 - 5 - 7     AX - 40     7.2     7.2     7.3     3.4        AX - 4 - 5 - 5 - 7     AX - 40     7.3     7.3     7.3     3.4        AX - 4 - 5 - 5 - 7     AX - 45     7.3     7.3     7.3     3.4		AX-4-5-6-7		32.3	323	19.4	767	6.21	759
AX-23-4-5     AX-40     7.3     7.3     7.3     7.1     7.1       AX-2-3-4-5-6     HAX-40     HA.9     IA.9     6.4     96     2.3       AX-3-4-5-6-7     HDX-40     22.0     11.9     178     6.8       AX-2-3-4-5-6-7     AX-48     7.3     7.3     3.4        AX-2-3-4-5-6-7     HAX-48     AX-3-4-9-6-7     IA.8     IA.8     6.4     96     2.3       AX-2-4-5-6-7     AX-5-5-7     AX-5-6-7     AX		AX-5-6-7-8		164	164	3/.2	894	22.3	944
AX-2-3-4-5-6     HAX-40     HA     148     6.4     96     23       AX-3-4-5-6-7     HDX-40     22.0     11.9     778     6.4       AX-4-3-6-7-8     AX-46     73     73     73     34       AX-2-3-4-5-6-7     HAX-48     73     73     33     34       AX-1-2-3-4-5-6-7     HAX-48     22.0     11.9     778     6.8       AX-1-2-3-4-5-6-7     AX-56     AX-56     73     73     2.3     34        AX-1-2-3-4-5-6-7     AX-56     AX-56     73     73     2.3     34        AX-1-2-3-4-5-6-7     AX-56     73     73     2.3     34		AX-1-2.3-4-5	0x-x0	N. W.	E	3.0	57	2.7	42
AX-3-4-5-6-7     HDX-40     12:0     11:9     778     6.8       AX-4-5-6-7-8     AX-48     73     73     73     34     79     12:9       AX-1-2-3-4-5-6-7     HAX-48     14.8     14.8     6.4     96     2.3       AX-1-2-3-4-5-6-7     HAX-48     22:0     22:0     11:9     178     6.8       AX-1-2-3-4-5-6-7     AX-56     7.3     73     7.3     34        AX-1-2-3-4-5-6-7     AX-64     7.3     73     7.3     34	5	AX-2-3-4-5-6	HAX-40	14.8	801	6.4	*	2.3	*
AX - 6.5 - 6.9     AX - 48     7.3     3.3     AX 6     3.9     AX 6       AX - 2.3 - 6.5 - 7     A(X - 2.3 - 6.5 - 7)     A(X - 2.3	\$	AX-3-4-5-6-7	04-X0H	22.0	220	6:11	178	8.9	136
AX-1-2-3-4-5-6 AX-498 X3 73 2.3 34 AX-2-3-4-5-6-7 HAX-498 14.8 14.8 6.4 96 2.3 AX-2-3-4-5-6-7 AX-56 7.3 73 73 2.3 34 AX-1-2-3-4-5-6-7 AX-56 7.3 73 73 2.3 34 AX-2-3-4-5-6-7-8 AX-64 7.3 73 2.3 34		AX-4-5-6-7-8		32.3	323	18.4	Ŷ,	42.9	252
AX-2-3-4-5-6-7 HAX-40 HAB HAB 6.4 96 2.3 AX-3-4-5-6-7 AY-56 7.3 73 2.3 34 —— AX-1-2-3-4-5-6-7 AY-56 7.3 73 3.3 34 —— AX-1-2-3-4-5-6-7-0 AX-64 7.3 73 73 2.3 34 ——		AX-1-2-3-4-5-6	9x-48	8 K	73	2.3	*	1	1
AX-3-45678 HOX-48 220 220 11.9 178 6.8  AX-1-2-3-4-5-6-7 AX-56 7.3 73 73 3.4  AX-1-2-3-4-5-6-7-8 HAN-56 14.8 14.8 6.4 96 2.3  AX-1-2-3-4-5-6-7-8 AX-64 7.3 73 73 34	48	AX-2-3-4-5-6-7	HAX-48	14.1	148	6.4	96	2.3	75
AX-1-2-3-4-5-6-7 AX-56 7.3 73 73 7.3 34 AX-2-3-4-5-6-7-8 HAX-56 14.8 14.8 6.4 96 2.3 AX-1-2-3-4-5-6-7-8 AX-64 7.3 7.3 7.3 34		AX-3-4-8-78	HOX-48	22.0	220	11.9	178	6.8	136
AX-2-3-4-5-6-7-8 HAX-56 148 148 6.4 96 2.3		AX-1-2-3-4-5-6-7	AX-56	7.3	73	2.3	×	1	
AX-1-2-3-4-5-6-7-8 AX-64 7.3 73 2.3	36	AX-23-4-5-6-7-8	HAX-56	14.8	148	6.4	26	2.3	9#
	29	AX-1-2-3-4-5-6-7-8	0X-64	7.3	7.3	2.3	*	1	1

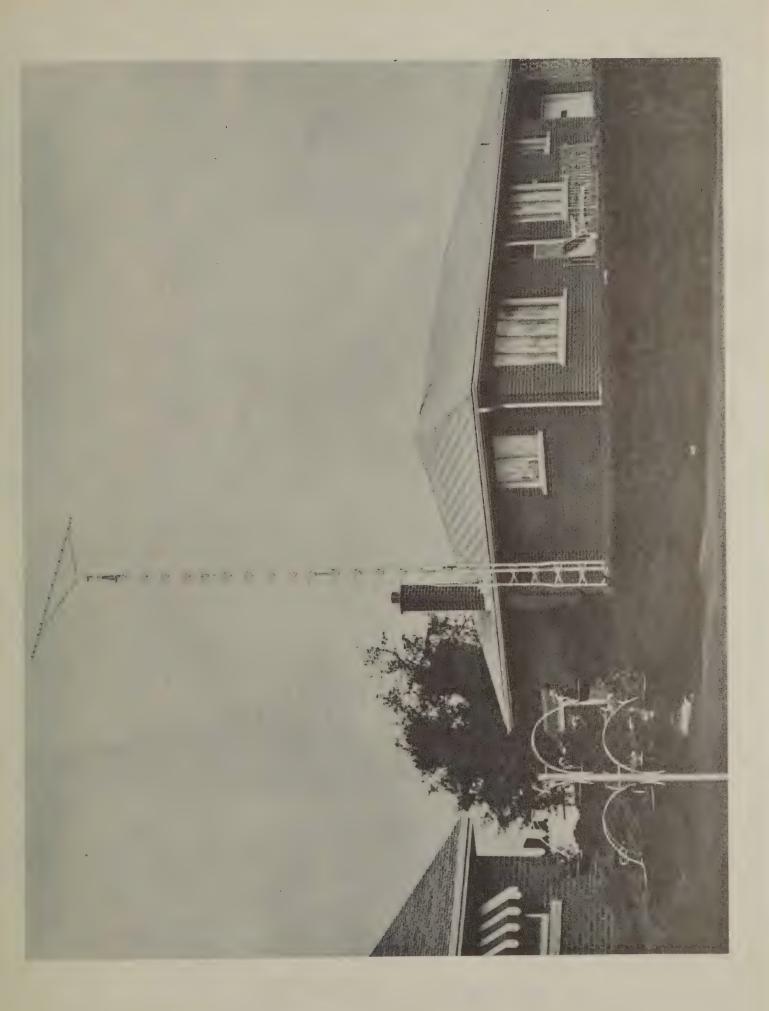
# THIS LOAD CAN BE APPLIED AT A POINT S.F.T. ABOVE THE AREA OF THE TOWER TO THE TOWNER.



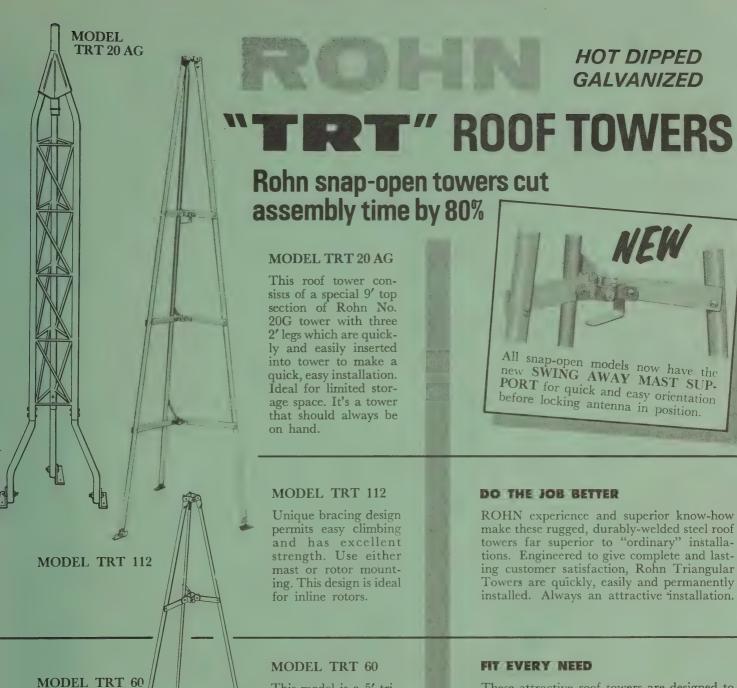












This model is a 5' triangular roof tower. Sturdily cross-braced for extra strength.

These attractive roof towers are designed to fit on all types of roofs, and will mount tubular masts of varying lengths to suit the widest possible variety of customer needs.

### MODEL TRT 36

A 3' triangular roof tower that makes an excellent installation because of it's sturdiness. Far superior to "ordinary" installa-

Similar to above ex-

### MODEL TRT 30

cept 2½' in height.

### SPECIFICATIONS

All towers listed here (except the TRT 30) are designed to fit roofs with rafters 16 inches on center. Installation is simple and easily accomplished by use of lag screws in the base plates. This securely and rigidly anchors the tower to the roof for a permanent type installation and gives trouble free and long-time service. Towers are all assembled and ready to install in a moment.

### NOTE: TRT 112, 60, 36 & 30 fold down as illustrated for shipping and storing.

**MODEL** 

**TRT 36** 



ROHN	RO	OF	TOWERS

	ROHN ROOF TOWERS			
PART NO.		LIST	SUGG'D.  DEALER	WT.
TRT-30	30" high	8.65	5.20	6
TRT-36	3 high	10.00	6.00	7
TRT-60	5 high	16.15	9.70	10
TRT-112	9'4" high	25.00	15.00	25
TRT-120	10 high (assembled & nested)	29.95	17.95	24
TRT-20AG	11' high	38.95	23.35	30
TRT-BAG	Plastic bag containing: 6 lag screws, 4 twist-on stand-offs, & 3 foot sealers for TRT feet	3.50	2.10	1/2
TRT-120-KD	10' high (knocked down)		Discontinued	
TRT-120-SF	10' high (with special feet)		Discontinued	
TRT-20E	20" high (one adjustment bolt)		Discontinued	
TRT-30E	30" high (one adjustment bolt)		Discontinued	
SF-TRT	Special feet for TRT-36-60-120		Discontinued	
RP-TRT-120	Rotor post for TRT-120		Discontinued	
	GOLD PAINTED			
7 TRT-30G	30" high	9.75	5.85	6
7 TRT-36G	3' high	10.85	6.50	7
7 TRT-60G	5' high	17.95	10.75	10
	"GOLD" COLORDIZED COA	TING		
TRT-30A	30" high		Discontinued	
TRT-36A	3' high		Discontinued	
	T31'NT11TNT114T T57 T10\T/1T1			
	INDIVIDUALLY BOXED (With 6 Lag Screws, 4 Twist-on Stand-		Sealers)	
TRT-30B	30" high	10.35	6.20	8
TRT-36B	3' high	12.00	7.20	9
TRT-60B	5' high	18.35	11.00	12
TRT-30GB	30" high (gold painted)	11.40	6.85	8
TRT-36GB	3' high (gold painted)	12.85	7.70	9
TRT-60GB	5' high (gold painted)	20.20	12.10	12
TRT-30AB	30" high (gold coating)		Discontinued	
TRT-36AB	3' high (gold coating)		Discontinued	
TRT-20EB	20" high (one adjustment bolt)		Discontinued	
TRT-30EB	30" high (one adjustment bolt)		Discontinued	

NOTE: All TRT-120 roof towers must be purchased in multiples of 5. All tripod-type roof towers have a swing-away mast support.

 $\overline{/N/}$  New Item.

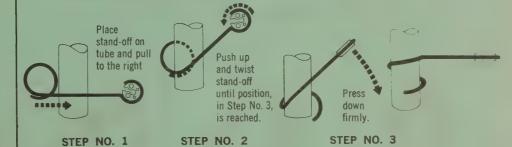
F.O.B. PEORIA, ILLINOIS
PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



The new ROHN Twist-on Stand-off is simplicity in action. It is installed quickly and simply without the use of any tools.

You have to see the TWIST-ON STAND-OFF in action to appreciate how fast it is installed. In addition to being easily installed, it is also reusable.

### **INSTALLATION PROCEDURE**



### SPECIFICATIONS

- Various lengths
- Available for all popular mast sizes
- Fast split-second installation
- Reusable inexpensive
- Replaces stainless steel strap & stand-off combination
- Holds the line in tension under all weather conditions
- One piece construction

U. S. PATENT NO. 3,263,026

PART NO.	DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
3TS1-U	3½ " for 1" mast (Universal) 3½ " for 1¼ mast (Flat) 3½ " for 1¼ " mast (Universal) 3½ " for 1¼ " mast (Flat) 3½ " for 1½ " mast (Universal) 3½ " for 1½ " mast (Universal) 3½ " for 1½ " mast (Flat)	4 lbs.	100
3TS1-F		4 lbs.	100
3TS1 ¼-U		4½ lbs.	100
3TS1 ¼-F		4½ lbs.	100
3TS1 ½-U		5 lbs.	100
3TS1 ½-F		5 lbs.	100

### ROHN NEW E-Z STAND-OFF

### SPECIALLY DESIGNED FOR UHF and VHF TV LEAD-IN WIRE

- Accommodates ROHN wire and others
- Easy to use
- · Always stays locked in
- Available in choice of styles
- Fits all new large diameter lines

These are Solid Polyethylene Insulators! No metal surrounds the wire!

### E-Z SWING-IN STAND-OFFS ARE IDEAL FOR ...



Heavy Duty Shielded 300 ohm Wire



Standard Heavy Duty 300 ohm Wire



Heavy Foam-Filled Twin-Lead



TIMES ACTUAL SIZE

STAND-OFF SHOWN 1½

Round Lead-In Plus OVAL & RGU CO-AX Any Type of Lead-In Wire

### E-Z SWING-IN STAND-OFFS ARE COMPLETELY ASSEMBLED READY TO USE! MAKE YOUR SELECTION NOW FROM THESE POPULAR TYPES Combination Machine and Wood Screw Type

PART NO. The last		DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
EZ 3½ WMS EZ 5½ WMS	3½″ 5½″	Single Insulator	3¼ lbs. 5 lbs.	100 100
EZ 7½ WMS-1	7½″ ·	Inline Duplex	6½ lbs.	100



PART NO.	DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
3½ WMS-F 3½ WMS-U 5½ WMS-F 5½ WMS-U 7½ WMS-F 7½ WMS-U 7½ WMS-IF 7½ WMS-II	WOOD & MACHINE SCREW COMBO STAND-OFFS  3½ " Regular Combo 3½ " Regular Combo 5½ " Regular Combo 7½ " Regular Combo 7½ " Regular Combo 7½ " Inline Combo 7½ " Inline Combo	3½ lbs. 3½ lbs. 4½ lbs. 4½ lbs. 6 lbs. 6 lbs. 7 lbs. 7 lbs.	100 100 100 100 100 100 100



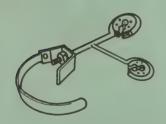
### **WOODSCREW STAND-OFFS**

3½ WS-F 3½ WS-U 5½ WS-F 5½ WS-U 7½ WS-F 7½ WS-U	3½ "Woodscrew #8 Wire 3½ "Woodscrew #8 Wire 5½ "Woodscrew #8 Wire 5½ "Woodscrew #8 Wire 7½ "Woodscrew #8 Wire 7½ "Woodscrew #8 Wire 7½ "Woodscrew #8 Wire	3½ lbs. 3½ lbs. 5 lbs. 5 lbs. 6 lbs.	100 100 100 100 100 100
7½ WS-IF	7½" Inline Woodscrew #8 Wire	9 lbs.	100
7½ WS-IU	7½" Inline Woodscrew #8 Wire	9 lbs.	100



### SOLID STEEL STAND-OFFS With Strip-proof Machine Threads and 9" Strap

PART NO.	DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
3½ MS-F 3½ MS-U 5½ MS-F 5½ MS-U 7½ MS-F 7½ MS-U	GALVANIZED STRAPPING  3½ " Single Insulator with Galvanized Strap  3½ " Single Insulator with Galvanized Strap  5½ " Single Insulator with Galvanized Strap  5½ " Single Insulator with Galvanized Strap  7½ " Single Insulator with Galvanized Strap  7½ " Single Insulator with Galvanized Strap	9½ lbs. 9½ lbs. 10½ lbs. 10½ lbs. 12 lbs. 12 lbs.	100 100 100 100 100 100
3½ MS-SS-F 3½ MS-SS-U 5½ MS-SS-F 5½ MS-SS-U 7½ MS-SS-F 7½ MS-SS-U	STAINLESS STEEL STRAPPING  3½ " Single Insulator with Stainless Steel Strap  3½ " Single Insulator with Stainless Steel Strap  5½ " Single Insulator with Stainless Steel Strap  5½ " Single Insulator with Stainless Steel Strap  7½ " Single Insulator with Stainless Steel Strap  7½ " Single Insulator with Stainless Steel Strap  7½ " Single Insulator with Stainless Steel Strap	9½ lbs. 9½ lbs. 10½ lbs. 10½ lbs. 12 lbs.	100 100 100 100 100 100



### **INLINE DUPLEX**

71/2 MS-IF	7½ " Inline Duplex with Galvanized Strap	13½ lbs.	100
7½ MS-IU	7½" Inline Duplex with Galvanized Strap	13½ lbs.	100
7½ MS-SS-IF	7½" Inline Duplex with Stainless Steel Strap	13½ lbs.	100
7½ MS-SS-IU	7½ " Inline Duplex with Stainless Steel Strap	13½ lbs.	100

6 lbs.

6 lbs.

100

100



### COMBINATION WOOD & MACHINE SCREW STRAPPING

9WM	9" Combo Colyanizad Ctron with T Not
JAA IAI	9" Combo Galvanized Strap with T-Nut
9WM-SS	9" Combo Stainless Steel Strap with T-Nut



	PART NO	DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
	S0S0-F S0S0-U	SNAP-ON MAST STAND-OFF For 11/4 " masts, 31/2 " long For 11/4 " masts, 31/2 " long	8 lbs. 8 lbs.	100 100
	MDIF	MASONRY DRIVE-IN STAND-OFF	0.11	100
M <sub>0</sub>	MDI-F MDI-U	Molded of hardened steel with three inch nail. Double welded construction.  Stand-off with Universal insert	6 lbs. 6 lbs.	100
	GT 3½-F GT 3½-U	EAVE CLAMP-ON STAND-OFF  3½ " single eave stand-off 3½ " single eave stand-off	10½ lbs. 10½ lbs.	100 100
	NIS-F NIS-U	NAIL-IN STAND-OFF  3½ " nail-in type stand-off 3½ " nail-in type stand-off	4½ lbs. 4½ lbs.	100 100
	TRM-4 TRM-4B	TRI-ROOF ANTENNA MOUNT  Constructed of hot dip galvanized steel for long life, rust free protection. Adjusts easily to any roof pitch. Furnished complete with 4' antenna mast. May also be mounted on a gable.  Antenna Mount (Bundled) Antenna Mount (Boxed)	9 lbs. 10 lbs.	1 1

PART NO.	DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
AP 1¾	ROHN ALL-PURPOSE ANTENNA MOUNT  For angle or flat roofs and corners. Will support masts up to 1¾ " diameter. Mast will mount in two positions. Made of extra heavy gauge steel, zinc plated, and clear chromate dipped — doubly protected against rust.	26 lbs.	12
TRT-30 TRT-36 TRT-60 TRT-30A TRT-36A TRT-20E TRT-30E	ROOF TOWER  Opens and closes like an umbrella. Completely assembled with solid rivets. Flexible feet fit roof with any slope. Shipped assembled — fast installation.  30" Roof Tower for Mast to 1¾" 3 ft. Roof Tower for Mast to 1¾" 5 ft. Roof Tower for Mast to 1¾" 30" "Gold" Roof Tower for Mast to 1¾" 3 ft. "Gold" Roof Tower for Mast to 1¾" 20" Roof Tower (one adjustment bolt) 30" Roof Tower (one adjustment bolt)	6 lbs. 7 lbs. 10 lbs. 6 lbs. 7 lbs. 5 lbs. 6 lbs.	1 1 1 1 1 1
TRT-120 TRT-120-KD	Triangular Roof Towers are of welded construction, hot-dipped galvanized. A rigid, durable mounting for all types of TV antennas.  10 ft. welded Roof Tower for Mast to 1¾ " (Assembled)  10 ft. welded Roof Tower for Mast to 1¾ " (Knocked down)	120 lbs. 24 lbs.	5



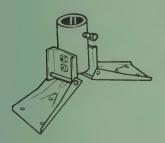
UM20 UM30 UM40 UM50

> AP20 AP30 AP40 AP50

**DESCRIPTION** 

WEIGHT PER STD. CARTON

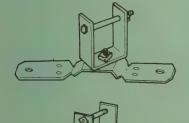
STD. CARTON



### RIDGE MOUNT — UNIVERSAL

For all types of roof installations — flat roofs, walls or peaked roofs. Completely assembled for quick and easy installation. Allows tall masts to be swung up along the ridge of the roof.

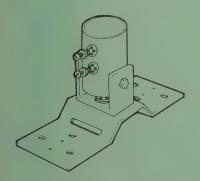
Holds masts to 1½ " dia.	44 lbs.	25
Holds masts to 13/4 " dia.	44 lbs.	25
Holds masts to 2" dia.	46 lbs.	25
Holds masts to 21/4 " dia.	46 lbs.	25



### **ALL-PURPOSE ECONOMY BASE**

 $\begin{array}{lll} \mbox{APO-Jr.} & \mbox{Holds masts to } 2\frac{1}{4}\, {''} \mbox{ dia.} \\ \mbox{APO} & \mbox{Holds masts to } 2\frac{1}{4}\, {''} \mbox{ dia.} \end{array}$ 

50 lbs. 50 37 lbs. 25



### SWIVEL MAST BASE HEAVY DUTY

Holds masts to 1½ " dia.	37 lbs.	25
Holds masts to 13/4 " dia.	37 lbs.	25
Holds masts to 2" dia.	40 lbs.	25
Holds masts to 2¼ " dia.	40 lbs.	25

SB125

DESCRIPTION

WEIGHT PER STD. CARTON

STD. CARTON

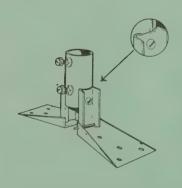


### **ECONOMY ANGLE BASE MOUNT**

For masts up to  $1\frac{1}{4}$  " ONLY. Designed for the small installation job . . . from 5 to 10 ft. Clamp type. Constructed of heavy gauge steel. Completely assembled to save time and save work.

25 lbs.

50



### **ROOF MOUNTS**

(TMB Series) with "locking" feature.

Well designed, carefully made all-purpose roof mounts. Feature "Locking" device which centers and locks the mast into place. Hot-dipped galvanized throughout. Built as a heavy-duty roof mount.

TMB-150 TMB-200 TMB-250 Roof mount with locking feature for masts up to  $1\frac{1}{2}$  "Roof mount with locking feature for masts up to  $2\frac{1}{4}$ "Roof mount with locking feature for masts up to  $2\frac{1}{4}$ "

16 lbs. 17 lbs. 19 lbs.

12 12 12



### ROOF MOUNTS (ETMB Series)

The standard base mount series. Features hot-dipped galvanized finish and heavy duty steel throughout. Part that accommodates mast is especially sturdy for extra strength.

ETMB-150 E ETMB-200 E ETMB-250 E

Economy roof mount for masts up to  $1\frac{1}{2}$  " Economy roof mount for masts up to 2 " Economy roof mount for masts up to  $2\frac{1}{4}$ "

7 lbs. 12 lbs. 14 lbs. 12

12

12



### TV ANTENNA ROOF MOUNTS

PART NO.

DESCRIPTION

WEIGHT PER STD. CARTON

STD. CARTON



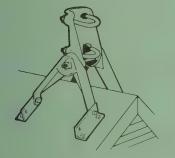
### **ROOF MOUNT ETMB**

ETMB

Universal roof mount. Features hot-dipped galvanized finish and heavy duty steel throughout.

12 lbs.

12



### "SELF-LOCKING" ROOF MOUNTS

This specially designed cast aluminum roof mount snaps into place when upright, then securely locks in that position by merely tightening hinge bolt. This feature means that masts can be installed by one man in a matter of seconds.

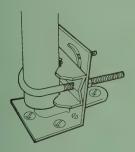
1AM

HM-150

Universal roof mount with self-locking feature

60 lbs.

24

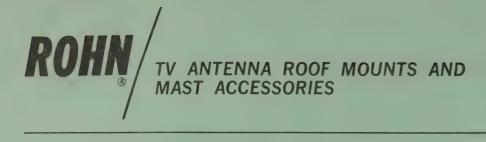


### HANDY MOUNT

An inexpensive mount especially designed for extra solid mounting support through an "extra leg" and reinforcing ribs. Zinc plated, clear chromate dipped for all-weather protection. Pre-assembled, will support masts up to  $1\frac{1}{2}$ " diameter.

20 lbs.

50



PART NO.	DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
2UMB	UNIVERSAL MAST BASE Universal mast base that can be used anywhere! Slip bolt through already drilled hole in all ROHN telescoping masts and fasten to U-piece. Can be rotated and mast can be raised from any angle. Entire base is hot-dipped galvanized for the finest weather protection available. Universal mount for telescoping masts	28 lbs.	24
GM-1	GABLE MOUNT  Attaches to any gable roof for a secure, durable antenna mounting. Release bottom bolt, slip into place and retighten bolt. Accommodates tubing up to $1\frac{1}{2}$ " in diameter.  Gable mount for masts up to $1\frac{1}{2}$ "	13 lbs.	1
	GALVANIZED GUY RINGS		
R-2 R-3 R-4 R-5 R-6	Hot-dipped galvanized steel guy rings in a wide variety of sizes for every size mast or any other need. Carefully and accurately made.  For 1¼ " mast size For 1¾ " mast size For 2" mast size For 2¼ " mast size For 2¼ " mast size	15 lbs. 15 lbs. 15 lbs. 15 lbs. 15 lbs.	100 100 100 100 100
	MAST CLAMPS		
C-2 C-3 C-4 C-5 C-6	Hot-dipped galvanized mast clamps in a wide variety of sizes to fit every mast. Comes complete with L-bolt and nut.  For 1¼ " mast size For 1½ " mast size For 2" mast size For 2½ " mast size For 2¼ " mast size	13 lbs. 13 lbs. 13 lbs. 13 lbs. 13 lbs.	100 100 100 100 100



### TELESCOPING MAST BRACKETS AND GROUND MOUNTS

PART NO.

TMCS-1

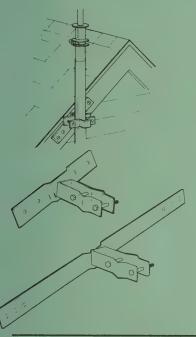
TMCS-2

GTMB-T

DESCRIPTION

WEIGHT PER STD. CARTON

STD. CARTON



### **MAST BRACKET**

Firmly clamps mast along side of building. Quickly and easily installed, swivel construction. Sturdy and long lasting.

TMC Heavy duty mast bracket, hot-dipped galvanized. Fits mast 1¼ " thru 2½" O.D. Holds mast 3" away from mounting surface

Mast bracket galvanized. Fits masts 1¼ " thru 1¾ " 0.D. Holds mast 3"

away from mounting surface

Mast bracket galvanized. Fits masts  $11\!\!4$  " thru  $13\!\!4$  " 0.D. Holds mast up to 8" away from mounting surface

½ lb.

1 lb.

3 lbs.

GTMB-H

### **GROUND MOUNT**

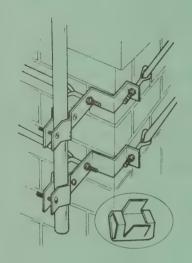
Sturdy, drive-in type ground mounts for telescoping masts and tubing.  $\,$ 

Ground mount for all ROHN telescoping masts and 1½" tubing.	3 lbs
Hinged ground mount for all ROHN telescoping masts and 11/4"	0 10.
tubing.	3 lbs
Ground mount for ROHN telescoping masts made from 11/4"	0 100
tubing.	3 lbs

Z-10-CM Z-12-CM Z-18-CM DESCRIPTION

WEIGHT PER STD. CARTON

STD. CARTON



### **ROHN QUICK "Z" CHIMNEY MOUNT**

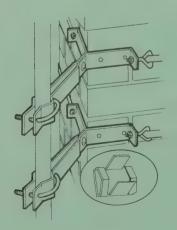
Only one piece to handle, Made of extra heavy gauge steel. Zinc plated and clear chromate dipped for long life. Brackets will support masts up to 1% " diameter. Complete with straps and necessary hardware.

### **GALVANIZED STEEL STRAPPING**

Mount with 34 " x 10 ft. Straps	30 lbs.	12
Mount with 3/4 " x 12 ft. Straps	32 lbs.	12
Mount with 3/4 " x 18 ft. Straps	39 lbs.	12

### STAINLESS STEEL STRAPPING

Z-10-CM-SS	Mount with 3/4 " x 10 ft. Straps	29 lbs.	12
Z-12-CM-SS	Mount with 3/4 " x 12 ft. Straps	30 lbs.	12
Z-18-CM-SS	Mount with 3/4 " x 18 ft. Straps	36 lbs.	12



### ROHN ECONOMY SNAP-IN CHIMNEY MOUNT

Fits masts up to  $1\frac{3}{4}$  " diameter. Extra heavy gauge steel construction. Doubly protected against rust. Zinc plated and clear chromate dipped for long life. Chimney clearance of 4". Simply snap mast in place and tighten bolts. Easy to handle. Complete with straps and necessary hardware.

### **GALVANIZED STEEL STRAPPING**

	CTAINLESS STEEL STRADDING		
SO18-CM	Mount with ¾ ″ x 18 ft. Straps	49 lbs.	12
S012-CM	Mount with 3/4 " x 12 ft. Straps	42 lbs.	12
2010-CM	Mount with ¾ " x 10 π. Straps	39 lbs.	12

EXCLUSIVE HEAVY-DUTY MAST CLAMP

S012-CM-SS S018-CM-SS Mount with 3/4 " x 12 ft. Straps Mount with 3/4 " x 18 ft. Straps

41 lbs. 48 lbs.

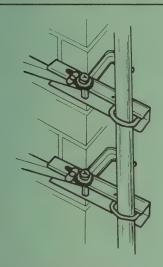
. 12. . 12

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### DESCRIPTION

WEIGHT PER STD. CARTON

STD. **CARTON** 



### **NEW RATCHET TYPE CHIMNEY MOUNT**

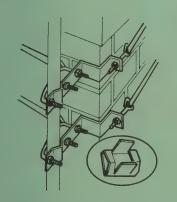
A new concept in antenna mounts. Easily installed. A quality constructed chimney mount designed to withstand high winds and adverse weather conditions. Requires only a wrench to fasten to chimney. The Ratchet Mount is clear chromate finished for long life. Accepts masts up to 11/2 " in diameter. Available in stainless steel or galvanized strapping in 12 or 18 ft. lengths. Complete with straps and necessary hardware.

### **GALVANIZED STEEL STRAPPING**

	Mount with ¾ " x 12 ft. Straps		46 lbs.	12
RT-18	Mount with ¾ " x 18 ft. Straps		53 lbs.	12

### STAINLESS STEEL STRAPPING

RT-12-SS	Mount with ¾ " x 12 ft. Straps	43 lbs.	12
RT-18-SS	Mount with ¾ " x 18 ft. Straps	48 lbs.	12



### **ROHN SPECIAL "Z" CHIMNEY MOUNT**

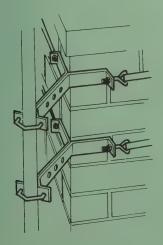
Steel zinc plated finish with galvanized or stainless steel strapping. Eye bolts attached to one end of each. For masts to  $1 \frac{1}{2} \, ''$  diameter. Complete with straps and necessary hardware.

### **GALVANIZED STEEL STRAPPING**

EZ-10-CM	Mount with 5/8" x 10 ft. Straps	29 lbs.	12

### STAINLESS STEEL STRAPPING

27 lbs. Mount with 1/8" x 10 ft. Straps 12 EZ-10-CM-SS



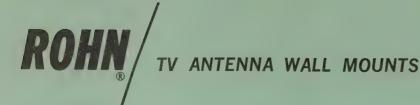
### **ROHN "Y" CHIMNEY MOUNT**

Galvanized finish. Three solid rivet construction. Accepts masts up to  $1\frac{1}{2}$  " diameter. Serrated U-bolts prevent mast slipping. Complete with straps and necessary hardware.

### **GALVANIZED STEEL STRAPPING**

	CTAINI ECC CTEEL CTDADDING		
Y-18-CM	Mount with ¾ " x 18 ft. Straps	45 lbs.	12
Y-12-CM	Mount with 34 " x 12 ft. Straps	39 IDS.	12

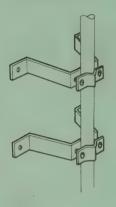
Y-12-CM-SS	Mount with ¾ " x 12 ft. Straps		36 lbs.	12
Y-18-CM-SS	Mount with ¾ " x 18 ft. Straps	4	2 lbs.	12



**DESCRIPTION** 

WEIGHT PER STD. CARTON

STD. **CARTON** 

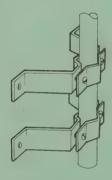


### V-7 WALL MOUNT

Constructed of heavy gauge steel. Fully plated U-bolt, nuts and installation hardware. Zinc plated for long life, weather protection. Installation hardware included.

VWM-7 Wall mount, 7" clearance 42 lbs.

25



### 4" SPECIAL WALL MOUNT

Low priced economy wall mount for close mounting. Made of heavy gauge steel, installation hardware included.

VWM-4 Wall mount, zinc plated, 4" clearance

Extra Heavy Deluxe 4" Wall mount, galvanized - Packed with lock car-

riage bolt and 13/4 " lag bolts. Will accommodate all mast sizes from

11/4" thru 21/2"

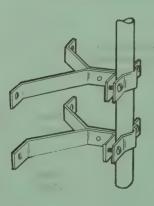
WM-4X

52 lbs.

46 lbs.

24

50



### **CLOSE WALL MOUNT**

Inexpensive close wall-mounting brackets. Ideal for areas where large clearance is not needed. Made of extra heavy gauge steel. Zinc plated and clear chromate dipped for double weather protection. Will accept masts up to 13/4 " diameter. All installation hardware included.

YWM-2 YWM-4

Wall mount, 21/4 " clearance Wall mount, 4" clearance

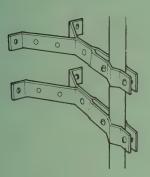
16 lbs. 21 lbs.

12

DESCRIPTION

WEIGHT PER STD. CARTON

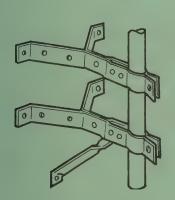
STD. CARTON



### "SNAP-IN" WALL MOUNT

Simply snap mast into brackets, tighten bolts, and the job is done. Brackets made of heavy gauge steel, zinc plated and clear chromate dipped for long life. All installation hardware included. Accepts masts up to 1% " diameter.

SWM-6 SWM-8 6" Snap-in wall mount 8" Snap-in wall mount 24 lbs. 36 lbs. 12 12



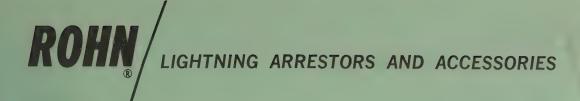
### MASTER DELUXE "SNAP-IN" WALL MOUNT

Brackets are spaced 16" wide for fastening to 16",  $2 \times 4$  centers. Eliminates "side sway" in antennas. Made of extra heavy gauge steel, zinc plated and clear chromate dipped for double weather protection. Will accept masts up to 134" diameter. All installation hardware included.

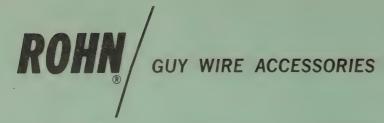
SWM-12	Wall mount, 12" clearance	48 lbs.	12
SWM-18	Wall mount, 18" clearance	78 lbs.	12
SWM-24	Wall mount, 24" clearance	53 lbs.	6

### ROHN TV ANTENNA PEAK AND VENT MOUNTS

PART NO.	DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
	ROHN PEAK MOUNT  Convenient method for mounting TV antennas. Easily installed, the peak mount is made of extra heavy gauge steel, zinc plated, clear chromate dipped for long life. Accepts masts up to 1¾ " diameter. Complete with installation hardware.		
EM-18 EM-30 EM-48	Peak mount, 18" lower support Peak mount, 30" lower support Peak mount, 48" lower support	29 lbs. 46 lbs. 35 lbs.	12 12 6
	ROHN VENT MOUNT		,
	For mounting TV antennas on vents up to 2½ " diameter. Made of extra heavy gauge steel, zinc plated. Accepts masts up to 1½ " diameter. Complete with necessary hardware.		
EVP-2	Vent Mount	25 lbs.	25
	ROHN VENT MOUNT		
	An easy-to-use vent mount that will clamp on any size vent or pipe. Only 2 pieces to clamp with bolts. Made of extra heavy gauge steel, zinc plated and clear chromate dipped for double weather protection. Heavy, new clamp on side. Complete with necessary hardware.		
VP-40 VP-60	Vent mount, for vents 4" to 6"	26 lbs. 32 lbs.	12 12
	VENT PIPE CLAMP WITH MAST		
	<ul> <li>Quickly, easily slips over vent pipe and clamps firmly in position!         Complete with hardware.</li> <li>No Guy Wires Necessary</li> <li>Strong, Rigid, Safe Mount</li> <li>Clamps Fit All Vent Pipes</li> <li>Hot-Dip Galvanized</li> </ul>		
VPM-210	10' hot-dipped galvanized mast with clamp to accommodate 2½" 0.D.	11 lbs.	1
VPM-310	vent pipe 10' hot-dipped galvanized mast with clamp to accommodate 2¾ " 0.D.	11 lbs.	1
VPM-305	vent pipe 5' hot-dipped galvanized mast with clamp to accommodate 2¾ " O.D.	6 lbs.	1
VPM-510	vent pipe 10' hot-dipped galvanized mast with clamp to accommodate $4\frac{1}{2}$ " O.D.	14 lbs.	1
VPM-505	vent pipe 5' hot-dipped galvanized mast with clamp to accommodate 4½" 0.D. vent pipe	10 lbs.	1



PART NO.		DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
LA-1	With Groundin	L UHF/VHF LIGHTNING ARRESTOR g Lug and Mounting Strap. Fits all types of lines: UHF, VHF, pen, square, and regular. Underwriters approved for both tdoor use.	16 lbs.	100
LA-2	With Mounting	L UHF/VHF LIGHTNING ARRESTOR Strap. With features available only in the finest arrestors. gn. For all types of lead-in lines: UHF, VHF, hollow, oval,	15 lbs.	100
UT-B <sup>.</sup> UT-I	Designed to f	IL LEAD-IN TUBES  it all lines. Low-loss material; weather-proof seal. May be il length; fits through ¾ ″ hole, and walls up to 14″ thick. brown ivory	4 lbs. 4 lbs.	10 10
3W K 3W K-B	3-WAY TV I Line klip Basket of 100		½ lbs. 44 lbs.	10 1000
MCA ,		T CLAMP ASSEMBLY  up assembly to fasten cross bars to mast. Edges serrated to ng.	23 lbs.	100



	PART NO.	DESCRIPTION	WEIGHT PER STD. CARTON	STD. CARTON
*				
	ROLLED	EDGE GUY RINGS		



	Mast size				
GR-1	11/4 "			17 lbs.	100
GR-2	11/2"			17 lbs.	100
GR-3	13/4 "			17 lbs.	100
GR-4	2" .			20 lbs.	100
GR-5	21/4 "			20 lbs.	100



### **GUY RING CLAMP**

Holds guy ring in place. Ring is full floating when clamped on mast.

C-100	For masts of 3/4 " to 1"			3 lbs.	100
C-125	For masts of 1¼ " to 1¾ "			4 lbs.	100



### **CABLE CLAMP**

3/16CCM

½CCM

Heavy gauge steel . . . Zinc plated . . . Fits guy wires from 1/8 " to 3/16"

 $\frac{3}{6}$ " Cable Clamp-Standard size 5 lbs. 100  $\frac{1}{8}$ " Cable Clamp-Small size 3 lbs. 100



### **GUY WIRE THIMBLE**

Prevents wire from fraying and loosening.

1/4 Th. Guy Wire Thimble. For all sizes wire up to 1/4 "

4 lbs.

100

### MOTOROLA

### BASE STATION **AUXILIARY SPEAKER KITS**



MODEL TSN6006A OR TSN6007A AUXILIARY SPEAKER KIT

### MODEL TABLE

MODEL TSI	N6006A OR TSN6007A AUXILIARY SPEAKER KIT
	MODEL TABLE
MODEL	DESCRIPTION
TSN6005A	Auxiliary Speaker Kit, 3 ohms input impedance
TSN6006A	Auxiliary Speaker Kit with volume control; approximately 3 ohms input impedance
TSN6007A	Auxiliary Speaker Kit with volume control and impedance matching transformer; 500 ohms input impedance

### DESCRIPTION

The Auxiliary Speaker Kit provides an additional speaker for use with a base station or the remote control console associated with the base station. The speaker housing includes rubber feet for convenient placement on a desk top or other working surface.

A choice of one of the three models listed in the preceding table provide flexibility of application. A 3-ohm unit with or without volume control is available for parallel connection with the existing remote control speaker, or a 500-ohm input unit is available for connection across the high impedance audio line.

### CONNECTIONS

Each of the Auxiliary Speaker Kits can be connected in parallel with the existing base station or remote control speaker. When such parallel connection is made, the audio performance characteristics will remain at a satisfactory level.

The TSN6005A or TSN6006A Auxiliary Speaker Kit should be connected with a two-wire line (not supplied) to the terminal board or other point of the remote control unit of the base station which will provide a 3-ohm supply. The TSN6005A model may be connected to be under the control of the remote control console speaker volume control.

Connect the TSN6007A Auxiliary Speaker Kit (which presents a 500-ohm input impedance) to the primary of the base station impedance-matching speaker transformer.



### MOTOROLA INC.

COMMUNICATIONS DIVISION

**Engineering Publications** 

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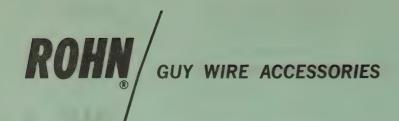
PART NO.		DES	SCRIPTION		WEIGHT PER STD. CARTON	STD. CARTON
EE-30 EE-40 EE-45 EE-55 EE-65 EE-75	TURNBUCK SIZE CLOSED 3% " 4" 4½" 5½" 6¾ " 7½"	SIZE OPEN 45%" 55%" 63%" 75%" 914" 101/2"	TAKE UP 1½" 1½" 1½" 2½" 3"	BOLT \$1ZE %2" %6" %2" %4" %6" %6"	5 lbs. 8 lbs. 11 lbs. 24 lbs. 13 lbs. 24 lbs.	100 100 100 100 50 50
GR-384 GR-384Z GR-386 GR-386Z	installation. Gro galvanized also 4 ft. 3/6 " diame 4 ft. 3/6 " diame 6 ft. 3/6 " diame	eel rod, heavy co bund wire clamp available. ter copper ter hot-dipped ga	included. Asser	th sharp point for easy mbled on rod. Hot-dip	42 lbs. 42 lbs. 53 lbs. 53 lbs.	25 25 25 25 25



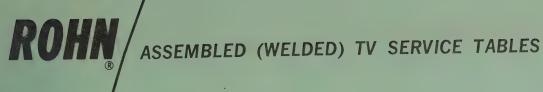
### SLOTTED HEX WASHER HEAD LAG SCREW

Steel, zinc plated lag screw especially made for TV antenna installations and brackets.

8061	5/16" x 1 3/4" long	to the state of th	7½ lbs.	100
2550	1/4" x 1 1/2" long			



	PART NO.		DESCRIPTION	`	WEIGHT PER STD. CARTON	STD. CARTON
		SCREW HOOK  3½ " long Hook opening ½" Wire size ½2"				
	SH-3½	Screw Hook Steel Zin	c Plated		4 lbs.	100
		SCREW HOOK 4" long Hook opening 11/8" Wire size 1/4"				
	SH-4	Screw Hook Steel Zin	c Plated		7 lbs.	100
		SCREW HOOK  4½" long Hook opening 1¼" Wire size 1½"				
	SH-4½	Screw Hook Steel Zing	Plated		11 lbs.	100
Vase of the control o	n o saka ara Haji sa kajirk	SCREW HOOK 5" long Hook opening 13%" Wire size 5%"				
PREVENTS WIRE FROM SLIPPING OFF	SH-5	Screw Hook Steel Zin	c Plated		15 lbs.	100
	WEB-2	SCREW EYE 2" Long — 3/16" Eye	Dia. Screw Eye Steel Zinc Plated		3 ths.	100
	WEB-3⅓		ve Dia. Screw Eye Steel Zinc Plated		5 lbs.	100
	WEB-5	SCREW EYE  5" Long — ¾" Eye [	Dia. Screw Eye Steel Zinc Plated		9 lbs.	100



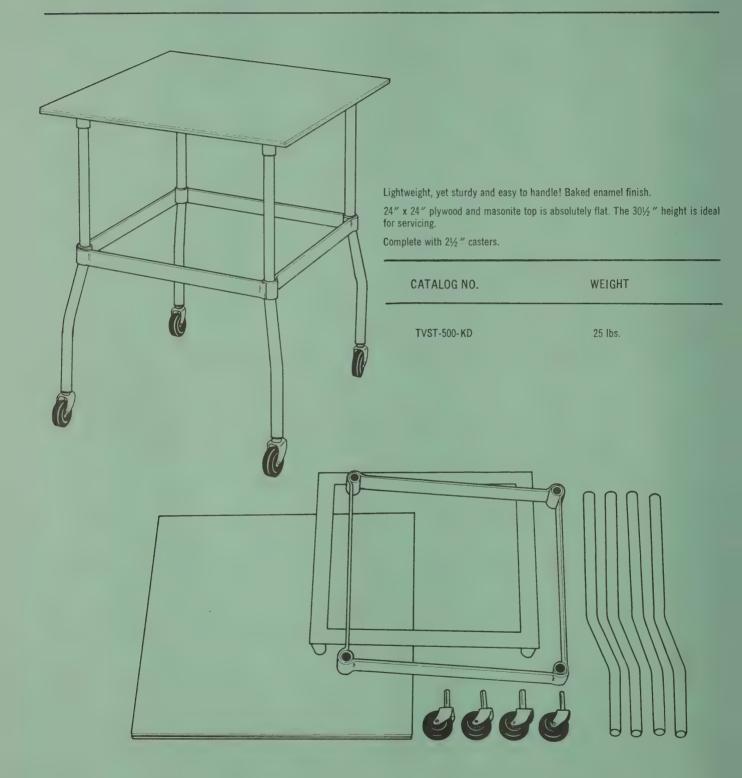
Provides an absolutely flat surface 24" x 24", 30½" high. 2½" casters give smooth ride. Baked enamel finish.

TVST-500 without shelf; TVST-600 with shelf.

CATALOG NO.	WEIGHT
TVST-500	28 lbs.
TVST-600	30 lbs.







#### ROHN & VULCAN HARDWARE

		SUGG'D.				SUGG'D.	
PART NO.	LIST	DEALER	WT.	PART NO.	LIST	DEALER	WT.
1/8 CCM	.30 ea	.21 ea	3/c	5½WMS-U	12.10/C	7.27/C	4½/C
3/16 CCM	.35 ea	.21 ea	5/C	/D/ 5½WS-F	11.50/C	6.91/C	5/C
	.21 ea	.15 ea	4/C	/D/ 5½WS-U	11.50/C	6.91/C	5/C
1/4 Th. 1AM	9.15 ea	5.50 ea	60/24	7½MS-F	32.75/C	19.64/C	12/C
2UMB	2.60 ea	1.55 ea	28/24	72HS-F 72MS-IF	53.30/c	31.96/C	13½/C
2½" caster	2.85 ea	2.00 ea	40/C	7½MS-IU	53.30/C	31.96/C	$13\frac{1}{2}$ /C
3TS1-F	16.10/C	9.65/C	4/C	7½MS-SS-F	40.00/C	24.00/C	12/C
3TS1-F	16.10/C	9.65/C	4/C	7½MS-SS-IF	60.60/C	36.34/C	13½/C
3TS12-F	17.00/C	10.20/C	4½/C	7½MS-SS-IU	60.60/C	36.34/C	13½/C
3TS1½-U	17.00/C	10.20/C	4½/C	7½MS-SS-U	40.00/C	24.00/C	12/C
3TS1½-F	18.20/C	10.20/C	5/C	7½MS-U	32.75/C	19.64/C	12/C
3TS1½-U	18.20/C	10.90/C	5/C	7½WMS-F	13.90/C	8.34/C	6/C
3½MS-F	25.40/C	15.24/C	9½/C	7½WMS-IF	35.00/C	20.99/C	7/c
3½MS-SS-F	32.70/C	19.60/C	9½/C	7½WMS-IU	35.00/C	20.99/C	7/C
3½MS-SS-U	32.70/C	19.60/C	9½/C	7½WMS-U	13.90/C	8.34/C	6/C
3½MS-U	25.40/C	15.24/C	9½/C	/D/ 7½WS-F	13.35/C	8.01/C	6/C
3½WMS-F	7.00/C	4.20/C	3½/C	7D/ 72WS-IF	30.30/C	19.98/C	9/C
3½WMS-U	7.00/C	4.20/C	3½/C	7D/ 7½WS-IU	30.30/C	19.98/C	9/C
7 3½WS-F	9.75/C	5.85/C	3½/C	7D/ 7½WS-U	13.35/C	8.01/C	6/C
7 3½WS-U	9.75/C	5.85/C	3½/C	9WM	20.60/C	12.35/C	6/C
5½MS-F	31.10/C	18.64/C	$10\frac{1}{2}$ /C	9WM-SS	25.35/C	15.20/C	6/C
5½MS-SS-F	38.40/C	23.04/C	10½/C	2550	.10 ea	.06 ea	2/C
5½MS-SS-U	38.40/C	23.04/C	10½/C	8061	.18 ea	.11 ea	4/C
5½MS-U	31.10/C	18.64/C	10½/C	AP 1-3/4	5.45 ea	3.28 ea	26/12
5½WMS-F	12.10/C	7.27/C	4½/C	AP20	3.25 ea	1.95 ea	37/25
2				AP30	3.40 ea	2.05 ea	37/25
				AP40	3.65 ea	2.20 ea	40/25
				AP50	3.85 ea	2.30 ea	40/25
				APO	2.60 ea	1.55 ea	37/25
				APO-Jr	1.65 ea	1.00 ea	50/50
				C-2	32.10/C	19.25/C	13/C
				C-3	32.10/C	19.25/C	13/C
				C-4	32.10/C	19.25/C	13/C

F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA

 $<sup>\</sup>overline{D}$  To be discontinued.

All items shipped in standard carton or package quantities only. Less than standard carton quantities subject to 15% handling charge. See Hardware Catalog for other details.

#### ROHN & VULCAN HARDWARE

			SUGG'D.				SUGG'D.	
	PART NO.	LIST	DEALER	WT.	PART NO.	LIST	DEALER	WT.
				1				# 0 / 0 #
	C-5	32.10/C	19.25/C	13/C	GR-386	4.00 ea	2.40 ea	53/25
	C-6	32.10/C	19.25/C	13/C	GR-386Z	3.35 ea	2.00 ea	53/25
	C-125	19.70/C	11.80/C	4/C	GT3½-F	51.10/C	30.66/C	10½/C
	Caster socket		.50 ea	10/C	GT3½-U	51.10/C	30.66/C	10½/C
	EE-30	36.15/C	21.67/C	5/C	GTMB	3.40 ea	2.05 ea	3 ea
	EE-40	40.30/C	24.17/C	8/C	GTMB-H	4.90 ea	2.95 ea	3 ea
	EE-45	43.90/C	26.33/C	11/C	GTMB-T	3.25 ea	1.95 ea	3 ea
	EE-55	52.15/C	31.29/C	24/C	MCA	.77 ea	.46 ea	23/C
	EE-65	89.95/C	53.96/C	13/50	MDI-F	26.10/C	15.64/C	6/C
	EE-75	130.00/C	77.97/c	24/50	MDI-U	26.10/C	15.64/C	6/C
	ETMB	2.50 ea	1.50 ea	12/12	R-2	16.10/C	9.65/C	15/C
	ETMB-150	2.15 ea	1.30 ea	7/12	R-3	16.10/C	9.65/c	15/C
	ETMB-200	2.75 ea	1.65 ea	12/12	R-4	19.25/C	11.55/C	15/C
	ETMB-250	3.10 ea	1.85 ea	14/12	R-5	19.25/C	11.55/C	15/C
	EVP-2	2.40 ea	1.45 ea	25/25	R-6	19.25/C	11.55/C	15/C
D/	EZ3½WMS	16.70/C	10.01/C	3½/C	/D/ RT-12	7.25 ea	4.33 ea	46/12
D/	EZ5½WMS	18.30/C	10.96/C	5/C	7D/ RT-18	8.25 ea	4.94 ea	53/12
_	EZ73WMS	20.95/C	12.56/C	6½/C	SB125	2.00 ea	1.20 ea	25/50
-	EZ7%WMS-I	35.55/C	21.32/C	9/c	SH-3½	12.25/C	7.35/C	4/C
D/	EZ-10-CM	4.00 ea	2.38 ea	29/12	SH-4	19.00/C	11.40/C	7/C
-	EZ-10-CM-SS	5.05 ea	3.01 ea	27/12	SH-43	21.80/C	13.07/C	11/C
	GM-1	27.85 ea	16.70 ea	13 ea	SH-5	34.50/C	20.69/C	15/c
	GR-1	22.35/C	13.40/C	17/C	/D/ S010-CM	5.50 ea	3.30 ea	39/12
	GR-2	22.35/C	13.40/C	17/C	/D/ S012-CM	5.65 ea	3.40 ea	42/12
	GR-3	25.70/C	15.40/C	17/C	7D/ S012-CM-SS	8.15 ea	4.90 ea	41/12
	GR-4	25.70/C	15.40/C	20/C	7D/ S018-CM	6.75 ea	4.05 ea	49/12
	GR-5	25.70/C	15.40/C	20/C	/D/ S018-CM-SS	10.15 ea	6.10 ea	48/12
	GR-384	3.10 ea	1.85 ea	42/25	-			

42/25

 $\sqrt{D/}$  To be discontinued.

GR-384Z

All items shipped in standard carton or package quantities only. Less than standard carton quantities subject to 15% handling charge. See Hardware Catalog for other details.

F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA

2.40 ca 1.45 ea

#### ROHN & VULCAN HARDWARE

	PART NO.	LIST	SUGG'D. DEALER	WT.	PART_NO.	LIST	SUGG'D. DEALER	WT.
	SOSO-F	20.00/c	12.00/C	8/C	* TVST-500	28.60 ea	20.00 ea	28 ea
	SOSO-U	20.00/C	12.00/C	8/C	TVST-500-KD	24.30 ea	17.15 ea	25 ea
	SWM-6	4.25 ea	2.55 ea	24/12	* TVST-600	32.65 ea	22.85 ea	30 ea
	SWM-8	5.40 ea	3.23 ea	36/12	UM20	3.50 ea	2.10 ea	44/25
D/		7.00 ea	4.20 ea	48/12	UM30	3.65 ea	2.20 ea	44/25
D/		9.20 ea	5.51 ea	78/12	UM40	4.00 ea	2.40 ea	46/25
D/	SWM-24	12.70 ea	7.61 ea	53/6	UM50	4.35 ea	2.60 ea	46/25
	TMB-150	3.25 ea	1.95 ea	16/12	/D/ UT-B	2.85 ea	1.72 ea	4/10
	TMB-200	3.65 ea	2.20 ea	17/12	7D/ UT-I	2.85 ea	1.72 ea	4/10
	TMB-250	4.00 ea	2.40 ea	19/12	VP-40	5.25 ea	3.15 ea	26/12
	TMC	4.00 ea	2.40 ea	3 ea	VP-60	5.25 ea	3.15 ea	32/12
	TMCS-1	2.00 ea	1.20 ea	½ ea	VPM-210	5.75 ea	3.45 ea	11 ea
	TMCS-2	2.50 ea	1.50 ea	1 ea	VPM-305	4.85 ea	2.90 ea	6 ea
	TRM-4	6.00 ea	3.60 ea	9 ea	VPM-310	6.90 ea	4.15 ea	11 ea
	TRM-4B	6.90 ea	4.15 ea	10 ea	VPM-505	6.35 ea	3.80 ea	10 ea
	TRT-20AG	38.95 ea	23.35 ea	30 ea	VPM-510	8.25 ea	4.95 ea	14 ea
	TRT-30	8.65 ea	5.20 ea	6 ea	VWM-4	1.70 ea	1.02 ea	52/50
-	TRT-30B	10.35 ea	6.20 ea	8 ea	VWM-7	3.60 ea	2.15 ea	42/25
N/	TRT-30G	9.75 ea	5.85 ea	6 ea	WEB-2	8.55/C	5.12/C	3/C
_	TRT-30GB	11.40 ea	6.85 ea	8 ea	WEB-3½	18.60/C	11.15/C	5/C
	TRT-36	10.00 ea	6.00 ea	7 ea	WEB-5	20.20/C	12.10/C	9/C
	TRT-36B	12.00 ea	7.20 ea	9 ea	WM-4X	2.75 ea	1.65 ea	46/25
N/	TRT-36G	10.85 ea	6.50 ea	7 ea	/D/ Y-12-CM	6.45 ea	3.85 ea	39/12
_	TRT-36GB	12.85 ea	7.70 ea	9 ea	7D/ Y-12-CM-SS	8.40 ea	5.03 ea	36/12
	TRT-60	16.15 ea	9.70 ea	10 ea	<del>/D/</del> Y-18-CM	7.45 ea	4.46 ea	45/12
	TRT-60B	18.35 ea	11.00 ea	12 ea	/D/ Y-18-CM-SS	10.15 ea	6.07 ea	42/12
N/		17.95 ea	10.75 ea	10 ea	/D/ z-10-CM	4.35 ea	2.62 ea	30/12
	TRT-60GB	20.20 ea	12.10 ea	12 ea	/D/ Z-12-CM	5.00 ea	3.00 ea	32/12
	TRT-112	25.00 ea	15.00 ea	25 ea	$\frac{7D}{D}$ Z-12-CM-SS	6.95 ea	4.18 ea	30/12
	TRT-120	29.95 ea	17.95 ea	24 ea	$\frac{7D}{D}$ Z-18-CM	6.00 ea	3.60 ea	39/12
	TRT-BAG	3.50 ea	2.10 ea	½ ea			0,000	07,11
	200	0,50 04		2 - 4				

<sup>/</sup>N/ New Item.

 $<sup>\</sup>overline{/D/}$  To be discontinued.

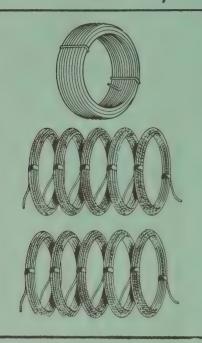
All items shipped in standard carton or package quantities only. Less than standard carton quantities subject to 15% handling charge. See Hardware Catalog for other details.

<sup>\*</sup> NOTE: Add \$4.00 on TVST-500 and \$4.25 on TVST-600 on shipments to the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA



### GROUND WIRE - GUY WIRE



**DESCRIPTION:** ALUMINUM GROUND WIRE Uncoated, pliable. Grounds mast from lightning and electrical disturbances.

No. 8 SOLID WIRE STD.	
PART NO.  AGW-8(10-100' coils)	N
DESCRIPTION: STEEL STRANDED GUY WIRE	
■ Heavy galvanized steel ■ Non-tangling interconnected coils ■ Rust-proof	
6 STRAND — 20 GAUGE 620	
DESCRIPTION: PLASTI-FLEX GUY WIRE	
<ul> <li>■ Heavy galvanized steel</li> <li>■ Heavy duty vinyl jacket</li> <li>■ Rust-proof — non-staining — weather-proof</li> <li>■ Non-tangling interconnected coils</li> </ul>	ges in
PART NO. 6 STRAND — 20 GAUGE STD. CARTOL CARTOL	N

PRICE SHEET D-82460 (Replaces D-80460)

Mar. 1, 1972

#### ROHN & VULCAN TV WIRE

PART NO.	LIST	SUGG'D. DEALER	WT.
AGW-8	30.45/M	18.25/M	17/Mft
620	14.75/M	8.85/M	19/Mft
618	25.00/M	15.00/M	32/Mft
618-2	25.00/M	15.00/M	32/Mft
750	37.10/M	22.25/M	24/Mft

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F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA

# Best in quality—new improved design Rown TELESCOPING MASTS

ROHN has the best in telescoping masts because they have sound design, unexcelled construction, and highest quality. A <u>careful</u> check of the details and features of ROHN masts proves this beyond doubt!

#### DESIGN

All ROHN telescoping masts are available in models of 20, 30, 40 and 50. All are equipped with special clamp and guy ring arrangement. The clamps firmly support each section as it is pushed up, holding it in place so that it does not slip down. When the section is fully extended, this clamp is tightened down with "L" Bolt to permanently hold the section in place. A heavy duty cotter pin is then inserted for additional support.

Another desirable design feature is flanging the interior tubing and crimping the exterior tubing so as to give a firmer and sturdier joint. (This feature is shown by the cut-a-way drawing, No. 1 at right.) Guy rings are on top of crimped area of each section except for the bottom section (as shown in drawing No. 2) in which a die-flanged area supports the lower guy ring so that the mast may be guyed before the other sections are hoisted. This guy ring on bottom section means easier installation without binding.

#### CONSTRUCTION

Only heavy-duty, hot-dipped galvanized steel tubing is used. The hot-dipped method is far superior to strip tubing because hot-dipping means that the entire mast is protected from corrosion! Lower end of each section is flanged so that the sections cannot pull apart. However, all sections can be pulled out the lower end of the mast, if desired. Sections cannot twist as cotter pin in special slotted notches prevent this! (See drawing No. 1.)

#### INSTALLATION

Absolute ease in installation. Mast comes complete—fully assembled with heavy-duty guy rings and clamps installed—ready for instant erection. All that is required is pull the sections up, tighten the clamp and place the cotter pin. It's as simple as that!

#### NOTE:

- ★ All tubing galvanized after fabrication.
- ★ No pre-galvanized strip tubing used in any ROHN mast!
- ★ No tubing lighter than 18-gauge used!

Others cannot claim these outstanding features.

#### FOR MAST BASES AND MOUNTS, SEE CATALOG SHEET

#### SPECIFICATIONS

**Bottom** Top ETMD Series-14" section is 15-gauge ETMD-20, MTE-20, tubing. All other sections are 17-ETMD-30, MTE-30, 13/4" 11/4" gauge tubing.

MTE Series -All sections are 17-gauge ETMD-40, MTE-40, 2" 11/4" tubing. ETMD-50, MTE-50, 21/4" 11/4"

NOTE: All Series have "L" Bolt for locking.

### ROHN

Manufacturing Co
PEORIA, ILLINOIS





O.D. of

O.D. of





#### ROHN TELESCOPING MASTS

(With All Hardware Except Base)

#### **IMPORTANT**

ROHN ETMD and MTE series telescoping masts are made from high strength tubing and are completely galvanized after the tubing is formed and welded. "True hot-dip" galvanized tubing with no uncoated seams -- highest quality available! All masts completely assembled with guy rings and clamps. ETMD and MTE series all use full 10' length tubing throughout.

PART NO.	SUGG'D.  BUGG'D.  BUGG'D.  BUGG'D.  WT.
ETMD-20 ETMD-30 ETMD-40 ETMD-50	20.20 12.10 17 31.60 18.95 26 44.20 26.50 37 59.20 35.50 49
MTE-20 MTE-30 MTE-40 MTE-50	17.70 10.60 15 28.35 17.00 25 40.35 24.20 35 54.60 32.75 48
MT-15-3	15' telescoping mast using 15.35 9.20 15 three 5' sections (1½", 1½" & 1 3/4" tubing)
PART NO.	SUGG'D.  DEALER
# 161004GH	1 1/20" x 10' - 16 gauge - with plain end 4.35 ea 2.60 ea
	(10 pieces per bundle - 10' lengths)

<sup>#</sup> ROHN ETMD and MTE series telescoping masts have top section drilled to accept an extra piece of tubing (161004GH) to increase height.

ROHN telescoping mast sections cannot pull apart, but the sections can be disassembled through the lower end of the mast if desired.

Telescoping masts are not recommended for commercial or ham installations.

#### F.O.B. PEORIA, ILLINOIS

#### ROHN ECONOMY TELESCOPING MASTS

(With All Hardware Except Base)

Pre-galvanized tubing with competitive staggered length feature.

H (formerly 16) series uses  $1\frac{1}{2}$ " and  $1\frac{1}{2}$ ", 16 gauge tubing with all other sections 18 gauge.

E (formerly 18) series uses  $1\frac{1}{4}$ ",  $1\frac{1}{2}$ ", and  $2\frac{1}{4}$ ", 18 gauge tubing with all other sections 20 gauge.

		SUGG'D.	
PART NO.	LIST	DEALER	WT.
H-20 (1620)	16.40	9.85	15
н-30 (1630)	24.60	14.75	25
н-40 (1640)	33.70	20.20	33
н-50 (1650)	43.95	26.35	43
E-20 (1820)	13.50	8.10	14
E-30 (1830)	20.70	12.40	2.2
E-40 (1840)	29.20	17.50	30
E-50 (1850)	39.35	23.60	39

Note: Use new telescoping mast numbers. Old numbers in parentheses will be deleted in future printings.

ROHN telescoping mast sections cannot pull apart, but the sections can be disassembled through the lower end of the mast if desired.

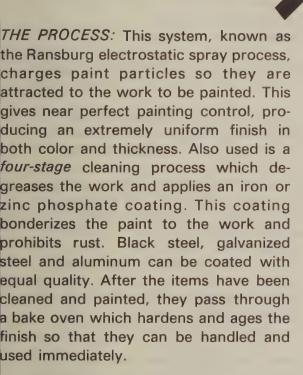
Telescoping masts are not recommended for commercial or ham installations.

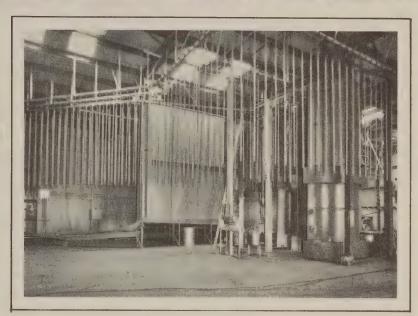
F.O.B. PEORIA, ILLINOIS



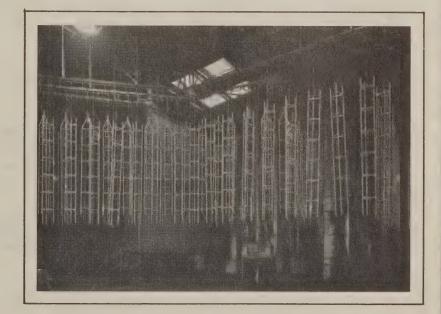
# ROHN—VULCAN PRODUCTS Now offered in .... CUSTOM ELECTROSTATIC PAINTING...

Ransburg electrostatic Spray Process—the finest application available . . .





The photos above and below show the system in operation. It's completely automated and geared for high capacity. The results are unbeatable.



A recent test conducted by an independent research laboratory, proved that metal coated with this process, withstood 120 hours of exposure to salt spray without corrosion! (Test on file)

For the finest in paint finish, ROHN-VULCAN products have it!

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### America's Foremost Name in Towers

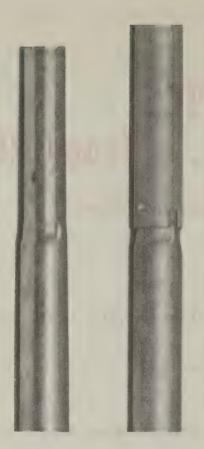
ROHN makes available the broadest line of tubing of any supplier in the industry. We supply it in three finishes . . .

- 1. Galvanized after fabrication.
- 2. Pre-galvanized.
- 3. Gold enameled.

These three finishes are the finest available in their class and should be explained more fully.

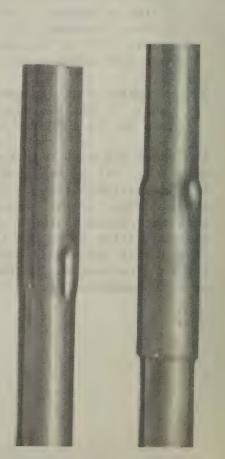
- 1. The galvanized after fabrication product is completely dipped after the tubing has been either expanded or swaged, and has no seams, holes, or edges whatsoever that are uncoated.
- 2. The pre-galvanized tubing is made from a coil of steel which is galvanized at the steel mill, cut into strips, and then formed into a piece of tubing. Where the tubing is welded, zinc is sprayed over the weld to give it protection at that point. It does, however, have a slightly uncoated seam on the inside and on the edges (ends). It is the most popular type of tubing sold today and is the type sold by most ROHN competitors.
- 3. Our gold tubing is made from black steel, the same as our galvanized after fabrication. It has a prime coat and a finish coat which gives it one of the best paint jobs in the industry today.

The other and most important consideration in tubing is whether to sell swaged or expanded. All of the ROHN swaged tubing is of the highest grade, highest strength tubing available today. It is the most economical and the strongest. Our expanded tubing is not of the same strength as the swaged, regardless of whether it is galvanized, pre-galvanized, or painted. It is not as strong, because the expanding process does not allow us to use the same type of steel as can be used in the swaging process. If you would give this point thoughtful consideration, you would realize this is one of the very reasons why we swage tower sections (#20 and #25), rather than expand them, as our competitors do.



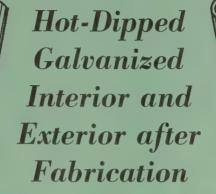
Strong . . . .

Weak . . .



### ROHNTUBING

with either expanded or swaged ends!



**NO UNCOATED SEAMS** 

(PANDED END WITH LOCKING JOINT!

Provides true, tight, and secure joint that affords maximum coking strength that an't slip! Depressed notch on expanded end locks into specially formed notch on tubing to be joined.

### HIGH STRENGTH

MEANS EXTRA STRENGTH FOR STURDINESS!

Made of highest quality **HIGH STRENGTH** steel, Rohn 18 gauge tubing meets strength specifications of competitive 16 gauge!

COMPLETE SELECTION FOR EVERY NEED!

Various lengths up to 10 feet; 16, 18, or 20 gauge and with either (1) expanded end with companion locking joint or (2) swaged (tapered) end to fit regular joint; also in optional Rohnkote (enameled) or pre-galvanized finish if desired.

ANOTHER "SUPERIOR-PROVED" PRODUCT FROM

ROHN Manufacturing Co.

Box 2000, Peoria, Illinois

SPECIAL ½' TAPERED (SWAGED) END WITH

LOCKING JOINT!

Permits tubing to join together tightly to form solid joint with another piece.

FOR SPECIAL LENGTHS OR FURTHER DETAILS:

Contact Factory or Rohn Representative.

#### ROHN MAST TUBING

#### HOT-DIPPED GALVANIZED AFTER FABRICATION

(10 pcs. per bundle)

IMPORTANT: All ROHN hot-dipped galvanized tubing is completely galvanized after the tubing is formed and welded. "True hot-dip" galvanized tubing with no uncoated seams -- highest quality available! - 18 gauge swaged has the strength of most competitive 16 gauge.

PART NO.		LIST	SUGG'D.  DEALER
	1½" Tubing - Expanded End and Locking Joint "True Hot-Dip" Galvanized (05GLX)	-	
161005GLX	1¼" x 10' - 16 gauge - with expanded end and locking joint	6.20 ea	3.72 ea
181005GLX	1½" x 10' - 18 gauge - with expanded end and locking joint	5.45 ea	3.28 ea
160505GLX	1½" x 5' - 16 gauge - with expanded end and locking joint	3.35 ea	2.02 ea
180505GLX	1½" x 5' - 18 gauge - with expanded end and locking joint	3.05 ea	1.82 ea
	1½" Tubing - Expanded End and Locking Joins "True Hot-Dip" Galvanized (06GLX)	t 	
161006GLX	1½" x 10' - 16 gauge - with expanded end and locking joint	6.75 ea	4.05 ea
	1½" Tubing - Swaged End and Locking Joint "True Hot-Dip" Galvanized (05GHS)		
161005GHS	1½" x 10' - 16 gauge - with swaged end and locking joint	5.45 ea	3.27 ea
181005GHS	1½" x 10' - 18 gauge - with swaged end and locking joint	4.80 ea	2.87 ea
160505GHS	1½" x 5' - 16 gauge - with swaged end and locking joint	2.90 ea	1.75 ea
180505GHS	1½" x 5' - 18 gauge - with swaged end and locking joint	2.70 ea	1.62 ea
	1½" Tubing - Plain End "True Hot-Dip"Galvanized (05GH)		
141005GH 140505GH	1½" x 10' - 14 gauge - with plain end 1½" x 5' - 14 gauge - with plain end	7.30 ea 3.95 ea	4.38 ea 2.36 ea

Quantities may be mixed.

F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA

#### ROHN MAST TUBING

#### PRE-GALVANIZED MATERIAL

	Little Canada A was a grant and a second and		
	(10 pcs. per bundle)	LIST	SUGG'D. DEALER
PART NO.	1½" Tubing - Expanded End and Lockin Pre-Galvanized (05PLX)	And the second distribution in the second distri	DEALEK
161005PLX	1½" x 10' - 16 gauge - with expanded end and locking joint	5.85 ea	3.50 ea
181005PLX	1½" x 10' - 18 gauge - with expanded end and locking joint	5.15 ea	3.08 ea
201005PLX	1½" x 10' - 20 gauge - with expanded end and locking joint	4.20 ea	2.53 ea
160505PLX	1½" x 5' - 16 gauge - with expanded end and locking joint	<b>3.1</b> 5 ea	1.90 ea
180505PLX	1½" x 5' - 18 gauge - with expanded end and locking joint	2.90 ea	1.73 ea
200505PLX	1½" x 5' - 20 gauge - with expanded end and locking joint	2.40 ea	1.43 ea
	1½" Tubing - Expanded End and Lockin Pre-Galvanized (06PLX)	ng Joint	
161006PLX	1½" x 10' - 16 gauge - with expanded end and locking joint	6.15 ea	3.70 ea
	1¼" Tubing - Swaged End and Locking Pre-Galvanized (05PHS)	g Joint	
161005PHS	1½" x 10' - 16 gauge - with swaged end and locking joint	5.10 ea	3.05 ea
181005PHS	1½" x 10' - 18 gauge - with swaged end and locking joint	4.45 ea	2.68 ea
201005PHS	1½" x 10' - 20 gauge - with swaged end and locking joint	<b>3.</b> 65 ea	2.18 ea
160505PHS	1½" x 5' - 16 gauge - with swaged end and locking joint	2.70 ea	1.63 ea
180505PHS	1½" x 5' - 18 gauge - with swaged end and locking joint	<b>2.5</b> 0 ea	1.50 ea
200505PHS	1½" x 5' - 20 gauge - with swaged end and locking joint	2.05 ea	1.23 ea
	1½" Tubing - Plain End Pre-Galvanized (05PH)		
161005PH 181005PH	$1\frac{1}{4}$ " x 10' - 16 gauge - with plain end $1\frac{1}{4}$ " x 10' - 18 gauge - with plain end	4.65 ea 4.05 ea	2.80 ea 2.43 ea
	1½" Tubing - Plain End Pre-Galvanized (06PH)		
161006РН	$1\frac{1}{2}$ " x 10° - 16 gauge - with plain end	<b>5.</b> 50 ea	3.31 ea

Quantities may be mixed.

F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA

#### ROHN MAST TUBING

#### GOLD ENAMELED

(10 .	pcs.	per	box)

	(10 pcs. per box)		
PART NO.		LIST	SUGG'D.  DEALER
	1½" Tubing - Expanded End and Locking Gold Enameled Steel Tubing Bonderized; Baked Zinc Coat; Baked Gold Enamel Finish ( (05ELX)	Prime	
161005ELX	1½" x 10' - 16 gauge - with expanded end and locking joint	5.95 ea	3.58 ea
181005ELX	1½" x 10' - 18 gauge - with expanded end and locking joint	5.20 ea	3.13 ea
201005ELX	1½" x 10' - 20 gauge - with expanded end and locking joint	4.60 ea	2.75 ea
160505ELX	1½" x 5' - 16 gauge - with expanded end and locking joint	3.75 ea	2.25 ea
180505ELX	1½" x 5' - 18 gauge - with expanded end and locking joint	3.05 ea	1.83 ea
200505ELX	1½" x 5' - 20 gauge - with expanded end and locking joint	2.75 ea	1.65 ea
	1½" Tubing - Swaged End and Locking Gold Enameled High Strength Steel Tubing Bonderized; Ba Prime Coat; Baked Gold Enamel Finish (05EHS)	ked Zinc	
161005EHS	1½" x 10' - 16 gauge - with swaged end and locking joint	5.20 ea	3.12 ea
181005EHS	1½" x 10' - 18 gauge - with swaged end and locking joint	4.55 ea	2.73 ea
201005EHS	1½" x 10' - 20 gauge - with swaged end and locking joint	3.95 ea	2.38 ea
160505EHS	1½" x 5' - 16 gauge - with swaged end and locking joint	3.10 ea	1.87 ea
180505EHS	1½" x 5' - 18 gauge - with swaged end and locking joint	2.65 ea	1.60 ea
200505EHS	1½" x 5' - 20 gauge - with swaged	2.40 ea	1.45 ea

Quantities may be mixed.

F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

end and locking joint

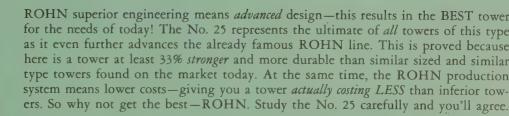


General-Purpose

Communication or

Heavy-Duty TV Tower

### HOT DIPPED GALVANIZED



These Outstanding Features Make ROHN No. 25 the BEST of any TOWER!

#### UNEQUALLED STURDINESS—

Extra heavy-duty heavy gauge steel tubing of 114" used for side rails, resulting in far greater strength and sturdiness than ordinarily found in this size tower.

The strength of the No. 25 allows it to be self-supporting provided a house bracket is used. Tower can go 35 feet above such bracket under normal conditions. (See instruction sheet.) Under most guyed conditions the No. 25 is suit-

able to heights of 200 feet! The engineering department suggests you inquire regarding special antenna or conditions for complete recommendations of using the No. 25 as it will satisfy a tremendously wide range of tower needs.

#### • PROVEN DESIGN-

Uses a 12½" equilateral triangular design with solid steel "zig-zag" cross-pieces entirely electric welded and fabricated by precision machines. The No. 25 has 8 "zig-zag" step per 10' section for more than usual strength.

#### • FINEST OF FINISHES—

Available in famous ROHN Hot Dipped zince galvanized permanent finish—the most durable coating ever known. Forever rust-proofs and gives an always attractive appearance. Every inch, including inside of entire tower, evenly and completely covered with zinc fused to the steel after fabrication.

### No. 25 uses ROHN double-bolted joint — proved the BEST way to join tower sections together for sturdiness and dependability.

#### SUPERIOR STRENGTH—

Superior strength has always been foremost in ROHN towers. This is achieved by setting rigid high standards for the steel used. These standards are constantly maintained by scientific testing according to accepted laboratory procedures so quality never varies! It's a natural conclusion that when quality ingredients are combined with precision manufacture and proven design the result is a BETTER product!

NOTE: Assembly bolts and nuts are located within 1 leg of each tower section.

TO ORDER SEE REVERSE SIDE

Designed and Manufactured Exclusively By -

ROHN Manufacturing Co
Peoria, Illinois

#25 TOWER

		#25 TOWE	R		
	PART NO.		LIST	SUGG'D. DEALER	WT.
-	250	101 town contin	24.45	24.10	
	25G 25AG	10' tower section 9' top section	34.45 36.80	24.10 25.75	40 31
/N/	ST25AG	Short top section, 5'	23.95	16.75	18
7.00	25AG-1	Top section. Mast support tube is 12" galv.	40.25	28.15	31
		pipe, threaded on top and projecting			
		12" above apex of side rails.			
	25AG-2	Top section. Mast support tube is 2½" O.D.	40.25	28.15	31
		tubing, 36" total length, extending 18" above apex of side rails.			
	25AG-3	Top section. Mast support tube is 2½" 0.D.	40.25	28.15	31
	23260 3	tubing, extending 12" above apex of side	40,25	20,23	31
		rails. A 2" O.D. antenna stub will fit			
		snugly inside support tube.			
	25AG-4	8' top section. Upper end terminates in 11"	40.25	28.15	31
		dia. flat, circular plate with 2½" dia.			
	25AG-5	hole in center.  Top section. Mast support tube is 2-3/4"	40.25	28.15	31
	2386-3	0.D. and 2-9/16" I.D. tubing, 18" total	40.23	20.13	31
		length.			
	25TG	10' tapered base section	58.25	40.75	60
	25RG	10' insulator section for 25G tower	153.10	107.15	74
		(includes 3 #10470 post insulators)			
	APL25G	Beacon plate	22.45	15.70	14
	SB25G	3'4" short base section for concrete	15.85	11.10	10
	SB25G-5 SBH25G	5' short base section for concrete 3'4" hinged short base section for concrete	22.45 20.15	15.70 14.10	20 14
	HGB25G	3 hinged ground base (for use without	25.20	17.65	27
	1100230	concrete)	23.20	17.03	21
-	SDB25G	Single drive base	17.60	12.30	20
	BPC25G	Concrete base plate	29.20	20.45	30
	3/4"x12" PP	Pier pin	2.50	1.75	1
	PD11950	(for BPC25G or 25TG - 1 required)	20.15	06.70	
	BPH25G 1/2"x12" BB	Hinged base plate for concrete Concrete base bolt w/double nuts	38.15 2.15	26.70 1.50	21 ½
	216 226 22	(for BPH25G - 4 required)	2,123	2.50	72
	FR25G	Flat roof mount	29.60	20.70	24
	PR25G	Peak roof mount	37.35	26.15	14
	BP25G	Base plate (for drive-in base)	10.15	7.10	9
	DR25G	3'4" drive rods (set of 3)	11.20	7.85	12
	DT25 RP25G	Drive tool Rotor post	6.70 3.35	4.70 2.35	I 3
	RP25G-CM	Rotor post	3.35	2.35	2
	AS25G	Accessory shelf. Triangular plate for mount-	14.80	10.35	4
		ing Ham 'M' rotor or mast bearing. Mounts			
		inside of tower.			
	GA25G	Guy assembly (bracket w/torque bars)	15.70	11.00	10
	GB25G	Guy bracket only	10.15	7.10	7
	HB25AG HB25BG	Adjustable house bracket (up to 15") Adjustable house bracket (15" to 24")	9.00 11.20	6.30 7.85	8 12
	HB25CG	Adjustable house bracket (24" to 36")	14.60	10.20	17
	EB2515G	Eave bracket (15")	5.95	4.15	5
	EB2524G	Eave bracket (24")	6.70	4.70	6
	EB2525G	Eave bracket (universal)	8,50	5.95	7
	TB50	Tower bushing - 1½" I.D. x 2" 0.D.	1.60	1.10	1/2
	TB75 S-1	Tower bushing - 1½" I.D. x 2" O.D. Rubber grommet (1 pc.)	1.60	1.10 Discontinued	1/2
	L-2	Rubber grommet (2 pcs.)		Discontinued	
	AB	Amateur bearing - 2"x4"x10" hardware for use	5.65	3.95	1
		with 25AG-4 top			
	TB-2	Thrust bearing, ball bearing, self-aligning,	23.60	16.50	8
		for 2" 0.D. tubing, bolts to 25AG-4 top			
	UHF25G	Side arm mount for UHF & FM antennas	5.50	3.85	4
	SAB25G-2	Side arm bracket for top antenna mounting alongside beacon	28.85	20.20	17
	SA25G-224	24" side arm with 36", 2½" O.D. support tube	45.25	31.65	22
	SA25G-524	24" side arm with 18", 2-9/16" I.D. support tub	e 45.25	31.65	18
	SA25G-67	67" side arm, 12" I.D. support tube, for mounti	ng 45.25	31.65	25
		TV receiving antennas (not recommended and			
	m 4 2 E	must be guyed to resist twist)	// 05	27 / 5	
	TA25 25TDM-2	Torque arm stabilizer assembly Top dish mount w/2" O.D. mast	44.95 42.35	31.45	35 34
	25TDM-25	Top dish mount w/2½" 0.D. mast	53.50	29.65 37 <sub>-</sub> 45	43
	25TDM-2SP	Top dish mount w/2" standard pipe	55.15	38.60	44
	25TDM-2EH	Top dish mount w/2" EH pipe	66.10	46.25	53
	25TDM-25SP	Top dish mount w/2½" standard pipe	72.35	50.65	58
	DM25G-2	Face dish mount w/2" (2-3/8" OD) 5' long	51.85	36.30	42
/N/	WP25G	standard pipe Work platform	22.75	15 05	10
114/	EF-25-45	Aluminum erection fixture, 12 ft. long (fits al	22.75 1 101.10	15.95 70.75	10 18
		models with 1½" side rails)	102.10	10.13	10
	P-25-45	Pole only for EF-25-45	56.15	39.30	10
	H-25-45	Head only for EF-25-45	56.15	39.30	8
	(V) N				

/N/ New Item.

NOTE: The price on \$25 sections will be \$5.50 higher on shipments to the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

#25G
Reference Sheet for Complete Guyed #25G Tower

#### DEALER PRICES

TOWER HEIGHT	30 lbs./sq.ft. WIND LOAD	40 1bs./sq.ft. WIND LOAD	50 lbs./sq.ft. WIND LOAD
40 1	216.00	216.00	216.00
501	245.00	245.00	270.00
60 <b>'</b>	273.00	276.00	307.00
·70*	300.00	337.00	337.00
801	367.00	367.00	412.00
90'	395.00	395.00	442.00
100'	431.00	474.00	541.00
110'	508.00	508.00	548.00
1201	538.00	538.00	585.00
1301	568.00	616.00	663.00
140	601.00	649.00	694.00
150'	686.00	686.00	841.00
160	764.00	811.00	
1701	780.00	827.00	
1801	856.00	856.00	
190'	893.00		
2001	927.00		

Above prices include all items listed on parts list sheets.

"Ground" or "roof" towers same price. When ordering, specify "roof" or "ground". See guy chart and parts list for details.

Prices for above towers are subject to change based upon current individual item prices. Prices subject to change without notice.

Anchor grounding (AGK) and base grounding (BGK) of all towers are recommended by E.I.A. and Rohn Manufacturing Co. However, grounding is not included in tower prices. See appropriate price list for grounding prices.

Above prices apply to shipments East of the Rocky Mountains. For shipments West of the Rockies, add \$4.00 per 10 ft. of tower height.

#### F.O.B. PEORIA, ILLINOIS

### REFERENCE PRICES & INSTALLATION INFORMATION #25 Bracketed Towers, NON-GUYED

BASE: The size of the concrete base for a 50' #25 tower, with a house bracket 12' above-ground, is 3' deep by 18" square. For cases of loose soil, etc., the base must be larger. Spread about 2" of gravel in bottom of hole prior to setting base section. After setting base section on gravel, being sure correct end is up, fill another 3" with gravel around legs of base. This allows the tower base legs to extend the required amount below the base of the concrete, thus allowing for drainage of moisture into the gravel. Level the base section as much as possible prior to pouring concrete and repeat the process to make the tower plumb, after pouring concrete. Do not pull base up into the concrete to level it and do not drive it hard into ground, as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation.

HEIGHT OF TOWER & BRACKET USES: House brackets must be used and must be mounted at least 12' aboveground to be effective. The #25 tower should not extend more than 33' above a house bracket. To secure the house bracket, use lag screws no smaller than 3/8" x 2". A special effort should be made to locate the house bracket such that the lag screws go through the siding into a stud. Brackets fastened to the siding only will not hold in a high wind. Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.

BOLTS: Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6 1/2" length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

MISCELLANEOUS: Installation is greatly hastened and simplified by the use of an erection fixture.

All information is based upon antennas with not more than 2 square feet of area, in 20 PSF (70 MPH) wind load and a safety factor, with antenna installed at tower apex.

See Chart B-691119 for more information on non-guyed towers.

#### DEALER REFERENCE PRICES FOR COMPLETE BRACKETED TOWERS

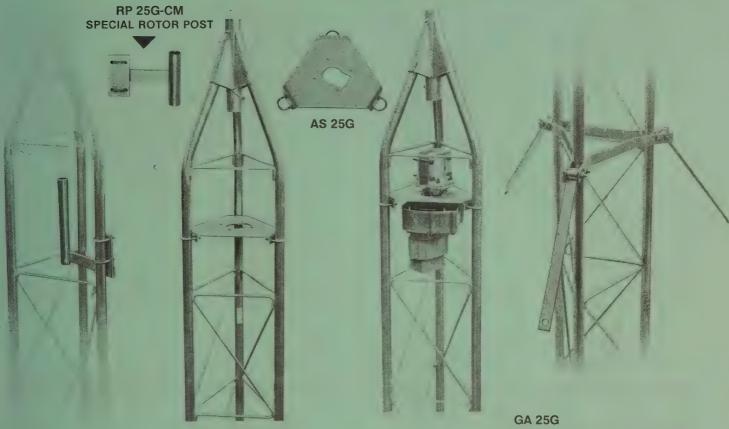
	30'	401	50 <b>'</b>	60 <b>'</b>	70'	80'
#25G	80.00	103.00	126.00	149.00	172.00	195.00

Includes top section (A-2), 15" to 24" adjustable house bracket, and required number of standard sections. Prices for above towers are subject to change without notice based upon current individual item prices.

Above prices apply to shipments East of the Rocky Mountain states. For shipments West of the Rocky Mountain states, add \$4.00 per 10 ft. of tower height.

F.O.B. PEORIA, ILLINOIS

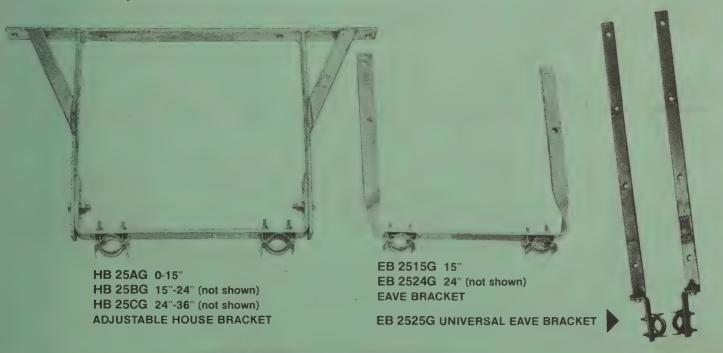
## ROHN TOWER ACCESSORIES



**RP 25G ROTOR POST** 

**AS 25G ACCESSORY SHELF** , for rotor mounting

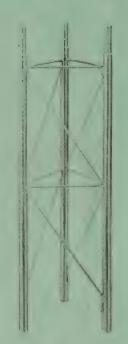
AS 25G on 25AG Top Section with Hy Gain Model 400 Rotor **GUY ASSEMBLY with torque bars GB 25G GUY BRACKET ONLY** without torque bars



ROHN MANUFACTURING CO.

PEORIA, ILLINOIS 61601

### RUHN TOWER ACCESSORIES



**SB 25G** 3'4" SHORT BASE section for concrete



**SBH 25G\*** 3'4" HINGED SHORT BASE section for concrete



**HGB 25G\*** 3' HINGED GROUND BASE (use without concrete)



SDB 25G \* SINGLE DRIVE in base





**BPH 25G\* HINGED BASE PLATE for concrete** 



**DR 25G\*** 3'4" DRIVE RODS (set of 3)

**DRIVE TOOL for DR 25G** 



**BP 25G\* BASE PLATE (for drive-in base)** 

PR 25G\* **PEAK ROOF MOUNT** 

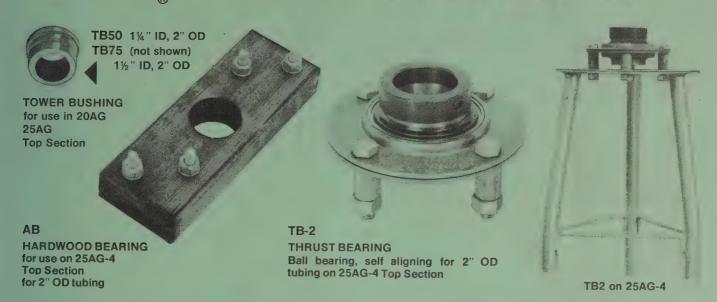
\*NOTE: Towers mounted on this base must be bracketed or guyed.

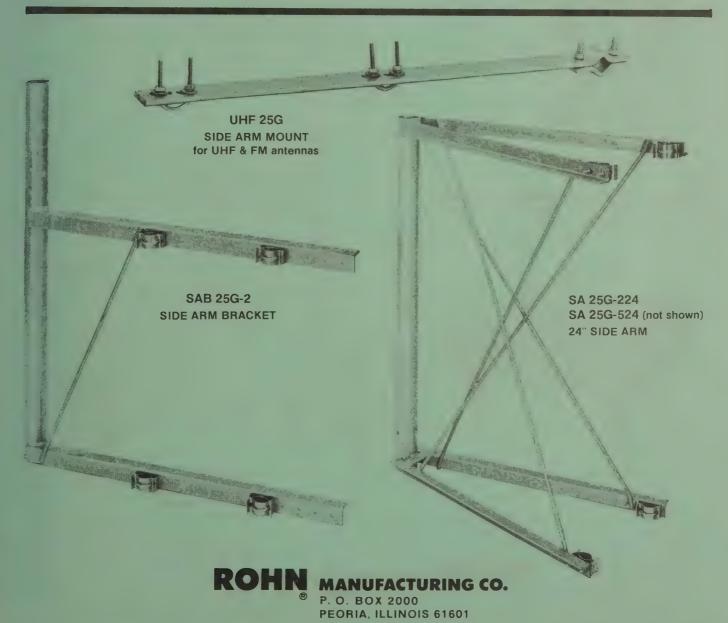


**MANUFACTURING CO.** 

P. O. BOX 2000 PEORIA, ILLINOIS 61601

# ROHN TOWER ACCESSORIES





# ROHN TOWER ACCESSORIES

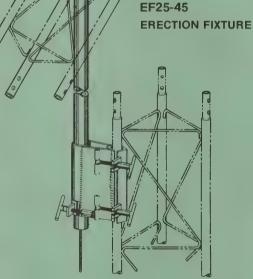


TA 25 25TDM-2

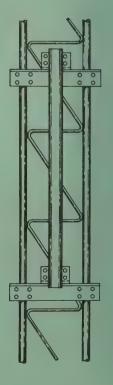
TORQUE ARM STABILIZER ASSEMBLY and TOP DISH MOUNT, (see drawing Page C-670315R for various sizes and assembly)



APL 25G
TOP BEACON PLATE



DM25G-2, FACE DISH MOUNT for 4 foot grid dish maximum



ROHN

MANUFACTURING CO.

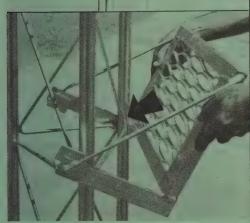
P. O. BOX 2000 PEORIA, ILLINOIS 61601



# ANOTHER FIRST FROM ROHN TOWER WORK PLATFORM for Model 20G & 25G Towers

### Take the aching feet out of tower work with this new Tower Work Platform.

Designed and manufactured according to Rohn high quality standards, this **one piece** platform provides a completely safe and stable "floor" for all your tower work. Just swing it around and it locks in place **anywhere** on the Model 20G & 25G towers. No pins, chains or bolts to loose or adjust. The heavy duty expanded metal floor is self-cleaning with a non-slip surface approximately 1 ft. square . . . plenty of room for comfortable working yet light and easy to handle. Like other Rohn quality products this WORK PLATFORM is Hot Dipped Galvanized for long life and neat appearance.



Place one "corner" of platform against Tower leg with upper support inside the Tower as shown



then pivot other "corner" around and drop straight down to lock in position.

simple as I-2-3

ROHN

MANUFACTURING

DIVISION OF



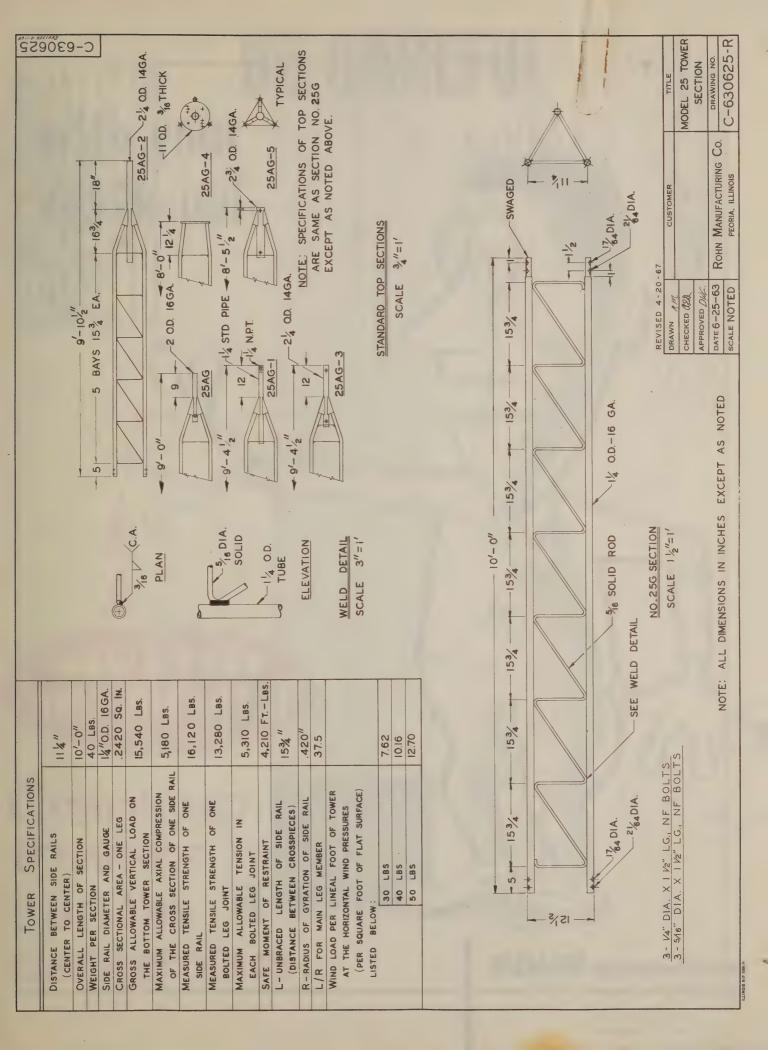
P.O. BOX 2000 . PEORIA, ILL. 61601

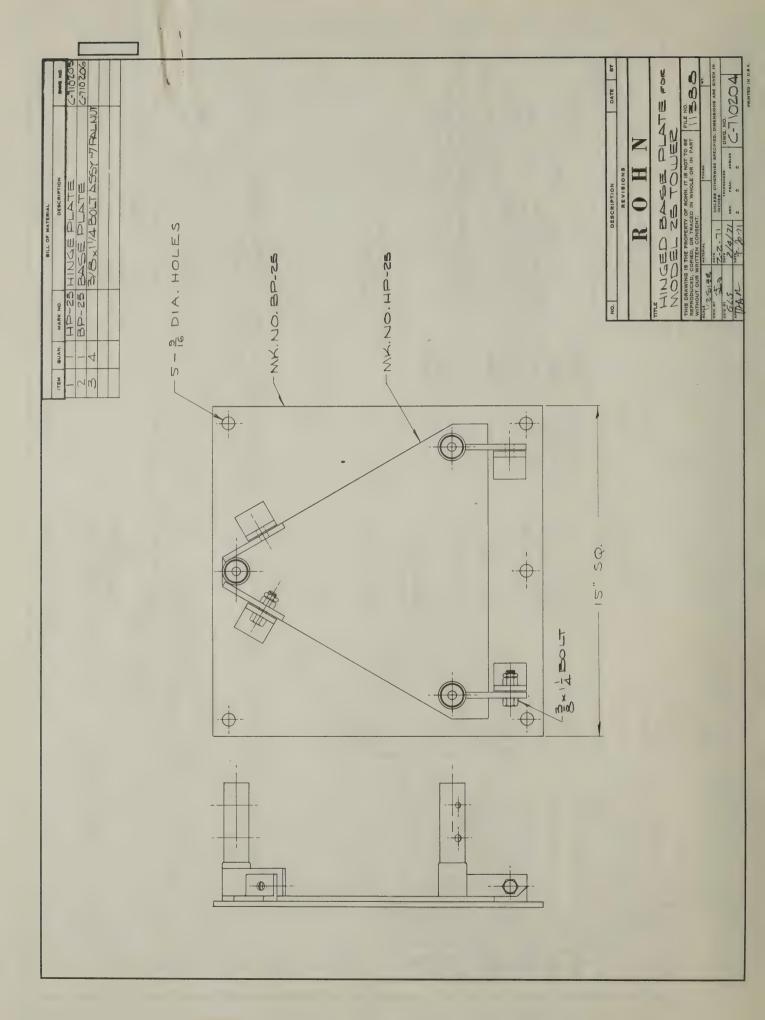
#### TOWER WORK PLATFORM

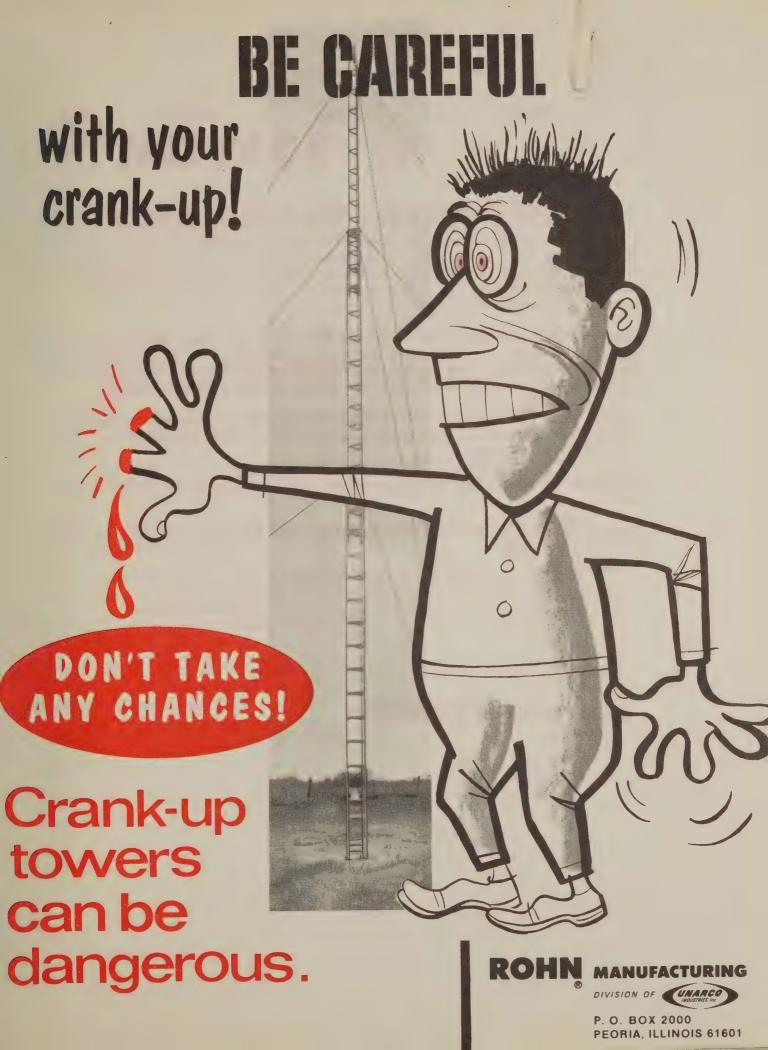
#### FOR 20G AND 25G TOWERS

PART NO.		<u>LIS'</u>	SUGG'D.  DEALER	<u>WT.</u>
WP25G Work	platform	22.7	5 15.95	10

F.O.B. PEORIA, ILLINOIS - or - BIRMINGHAM, ALABAMA







Rohn Manufacturing assumes no responsibility on the use of any of its crank-up towers. Damage in shipment or mishandling can cause bent braces or binding of the tower sections. During raising, these bent braces and/or binding can cause overloads on the cable and, in some cases, cause cable failure.

Inspect your tower <u>very</u> carefully and the first few times you crank it up, BE SURE that the cable does not bind at any place or interfere with any of the braces. This is especially true on the No. 6 type crank-up. A bent brace can cause two braces to act as a very good wire cutter.

Inspect your tower very carefully before using it to make sure it works properly. ROHN cannot assume any responsibility after any crank-up tower leaves its plant.

All crank-up towers can be dangerous and should be operated with extreme care.

Careful inspection of all parts should be made before and after each time the tower is used.

# \*NOTICE | M CRANK-UP TOWERS

ROHN does not recommend the use of crank-up towers.

This product is made available only due to the demand by experimenters, and should be used for experimenting only.

Crank-up towers can be dangerous and should be operated with extreme care.

Anyone who wishes to purchase this product must do so at his own risk and take all responsibility for any misfortunes in the operation of any ROHN crank-up tower.

ROHN has available much better and safer towers for permanent installations at much lower prices.

In most cases, it is impossible to get crank-up towers approved by cities and counties because they will not meet their engineering or safety codes, due to flexible joints, excentricities, and unstable column support.



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#### ROHN CRANK-UP MAST

#### Hot-Dipped Galvanized After Fabrication

#### PART NO.

R-50G

20' ( $8\frac{1}{2}$ ') tower and winch (#6805) with cable for cranking up 21' ( $1\frac{1}{2}$ '') mast. Automatic locking feature allows positive lock and release at any height for mast. Mast can be lowered without climbing. 21' mast will accommodate additional  $1\frac{1}{4}$ '' tubing with positive locking mast clamp.

Price includes following accessories, in addition to tower, winch, and 21' mast.

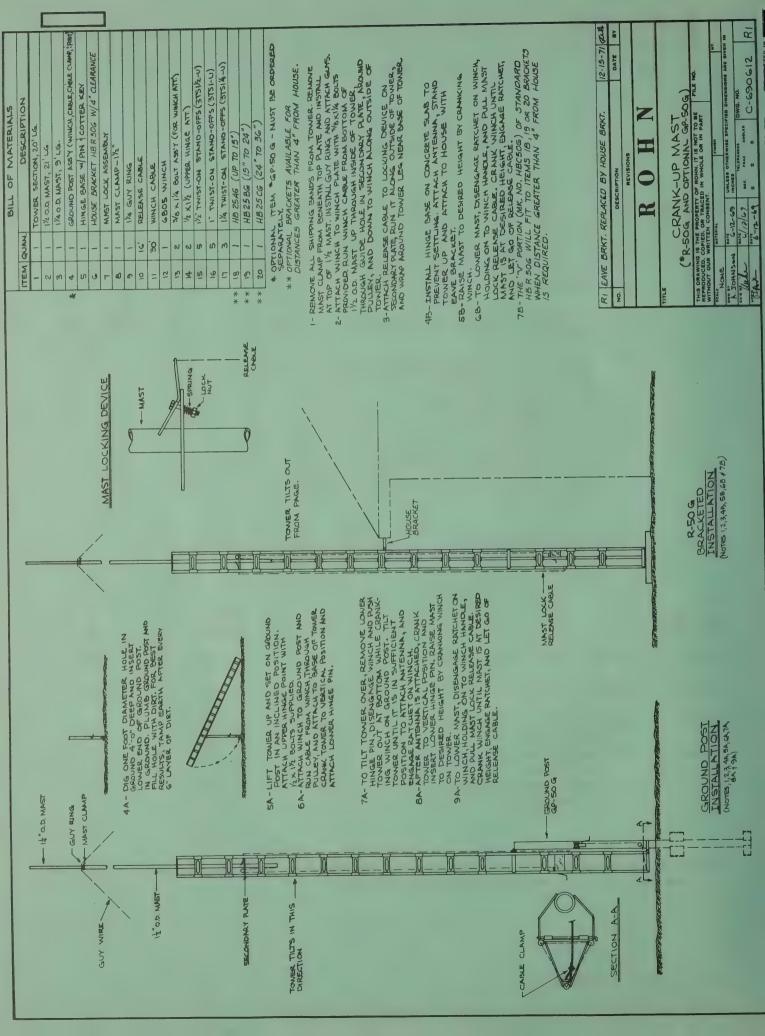
- 1 9', 1½" mast tubing (plain end)
- 1 1½" guy ring
- 1 1½" mast clamp
- 1 Hinge base
- 1 House bracket, 4" clearance (HBR-50G)
- 5 1½" twist-on stand-offs (3TS1½-U)
- 5 1" twist-on stand-offs (3TS1-U)
- 3 1½" twist-on stand-offs (3TS1½-U)

GP-50G Ground post for R-50G, including winch (#6805) and cable

PART NO.		LIST	SUGG'D.  DEALER	WT.
R-50G	Crank-up mast (per above)	123.50	86 ,50	120
GP-50G	Ground post (per above)	71.50	50.00	80
* HB25AG	Adjustable house bracket (up to 15")	9.00	6.30	8
* HB25BG	Adjustable house bracket (15" to 24")	11.20	7.85	12
* HB25CG	Adjustable house bracket (24" to 36")	14.60	10.20	17

<sup>\*</sup> These brackets available at extra cost to increase distance from house. V portion of HBR-50G bolts to standard 25G house bracket.

#### F.O.B. PEORIA, ILLINOIS





# Versatile - All Purpose - Guyed

# **CRANK-UP TOWER**

This hot-dipped galvanized tower lifts skyward with the simple turn of a crank and offers effortless flexibility of height in seconds. It features the same popular ROHN design and rugged construction as other models that have been acclaimed throughout the industry. It will fulfill the greater majority of your needs that call for a "crank-up" type tower. Available in heights of 37, 54 and 71 feet.

Construction uses "Magic Triangle"

Features equilateral triangular design with cross bracing utilizing a one-piece unit firmly welded to tubular steel legs. Triangular cross bracing is full 2½" wide and corrugated for exceptional strength.

Only ROHN has this "Superior Design" feature.

\*Putent Number 2,846,760

# Special Features

- COMPLETELY galvanized tower sections.
   STURDY winch and rust proof high strength cable.
- SAFETY rests constructed of heavy gauge steel relieve tension on cable when tower is extended for long period of time.

 COSTS less because ROHN production techniques and know-how utilize mass production machinery, yet give better quality. Entire tower hot dipped galvanized!

# ALL MODELS GUYED AT TOP OF EVERY SECTION

The 71 foot model uses four 20' sections The 54 foot model uses three 20' sections The 37 foot model uses two 20' sections

(All 20 foot sectional models have a 3' safety overlap on each section)

Exclusive Design and Manufacture by:

# ROHN manufacturing co

P. O. Box 2000, Peoria, Illinois

TO ORDER SEE REVERSE SIDE OF THIS SHEET FOR CATALOG NUMBERS, ETC.

# LIGHT DUTY #6 SERIES - GUYED CRANK-UP TOWERS

(Top section will not accommodate rotor mounted internally)

PART NO.		LIST	SUGG'D. DEALER	WT.
637G	Light duty guyed 37' crank-up tower with hinged base plate, $\frac{1}{2}$ " anchor bolt, guy lugs, safety stops, winch, and cable. Tower consists of 2 - 20' sections with an overlap of 3' between each section. Top section width is $3\frac{1}{2}$ ", lower section is $10\frac{1}{2}$ ".	230.00	160.00	145
654G	Light duty guyed 54' crank-up tower with hinged base plate, $\frac{1}{2}$ " anchor bolt, guy lugs, safety stops, winch, and cable. Tower consists of 3 - 20' sections with an overlap of 3' between each section. Top section width is $8\frac{1}{2}$ ", center section $10\frac{1}{2}$ ", lower section $12\frac{1}{2}$ ".	315.00	220.00	225
671G	Light duty guyed 71' crank-up tower with hinged base plate, $\frac{1}{2}$ " anchor bolt, guy lugs, safety stops, winch, and cable. Tower consists of 4 - 20' sections with an overlap of 3' between each section. Top section width is $8\frac{1}{2}$ ", center top section $10\frac{1}{2}$ ", lower middle section $12\frac{1}{2}$ ", bottom section $14\frac{1}{2}$ ".	430.00	300.00	335
M200 M200-H HBCP6 RM TB-2	Mast, 10' long, 2" 0.D., 16 ga. Mast, 10' long, 2" 0.D., 1/8" wall Universal house bracket for #6 series crank-up Rotor mount for #6 crank-up Thrust bearing, ball bearing, self-aligning, for 2" 0.D. tubing	11.45 21.45 17.85 30.70 21.45	8.00 15.00 12.50 21.50 15.00	14 30 10 36 8
	GUYING KITS FOR #6 CRANK-UP TOWE	CRS		
K637 K654 K671	Ground mounting guy kit for 637G crank-up Ground mounting guy kit for 654G crank-up Ground mounting guy kit for 671G crank-up	100.00 135.00 180.00	70.00 95.00 125.00	40 50 <b>7</b> 7

NOTE: All guy kits consist of guy wire, screw type earth anchors, thimbles, turnbuckles, cable clamps, and equalizer plates.

NOTE: Unloading of all shipments is customer's responsibility. Inspect your tower very carefully before using it to make sure it works properly. ROHN cannot assume any responsibility after any crank-up tower leaves its plant.

NOTE: Crank-up towers can be dangerous and ROHN does not recommend their use. This product is made available only due to the demand by experimenters and should be used for that purpose only.

F.O.B. PEORIA, ILLINOIS

# INSTALLATION INSTRUCTIONS FOR ROHN #6 SERIES CRANKUP TOWERS.

For complete factory recommended installation kits, see price list and parts list. All installation kits include guy wire, turnbuckles, cable clamps, guy wire, thimbles and screw type earth anchors.

# Receiving and inspection.

Upon receiving your new Rohn tower, care should be taken in the inspection of your unit prior to the removal of the shipping bands. Make a visual inspection to see that all shipping bands are in place and not broken. Make certain that the safety stops are strapped on the bottom of the unit. Inspect the winch for damage. Try to determine if any of the sections are bent. If damage is apparent, contact the local delivering carrier and make claim.

### INSTALLATION INSTRUCTIONS

# #1 Footing Details for all Rohn #6 series crankup towers.

Dig a foundation footing 2' x 2' x 1' deep (See drawing #C-620617) and pour concrete. Using the hinged base plate (Attached to base of tower) as a template, install the 1/2" foundation bolt in the wet concrete. Leave approximately 1" of the bolt extended above the base. Allow concrete at least 24 hours drying time before installing tower.

# #2 Installation of earth anchors.

Using Rohn #GAS-604 screw type earth anchors or equivalent anchor with a holding power of 2,000# or better. Distance anchors should be placed from the base of tower and will vary with the model tower used. See below for factory recommended anchor distance from tower base.

#637G Crankup tower

Three anchor points, spaced 120° apart, 20' from base of tower.

Three anchor points, spaced 120° apart, 30' from base of tower.

#671G Crankup tower

Three anchor points, spaced 120° apart, 40' from base of tower.

When anchor points have been established and spaced 120 degrees apart, using a piece of scrap pipe or bar placed through the eye of the anchor rod, the anchor is then screwed speedily and solidly into the ground by just two men. When anchors are in place, install equalizer plates and turnbuckles per drawing.

#### #3 Guy Wires.

By using the guy chart, determine the length of guy wire required for each guy. Precut the guy wires making certain that sufficient amount has been allowed for sag and turnbuckles. Attach all guy wires to the tower, using two cable clamps for each attachment.

# #4 Raising the tower to the vertical position.

When the concrete has properly hardened, bolt the base plate on the foundation. See drawing. By lifting the base of the tower on the base plate, insert the two base plate bolts in the tower and base flanges. Do not tighten these bolts more than finger tight at this time. Now, raise the tower to the vertical position and insert the front base plate bolt. All base bolts can now be tightened. When the tower is in the vertical position, the lower set of guy wires can be installed and brought up to final tension. Do not apply over 200% tension to any one guy wire.

# #5 Cranking up the tower.

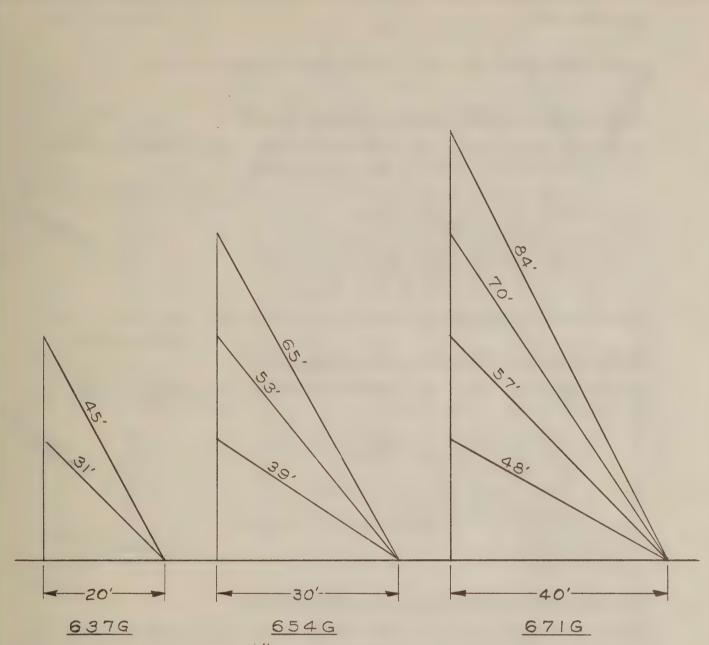
You may now proceed to crankup the tower. It is adviseable to have a man on each set of guys in the event a gust of wind should come up while raising or lowering the tower. The #6 series crankup is not intended as a self-supporting tower and should be guyed in all instances. When cranking up the tower, care should be taken not to raise or lower the tower too fast. You will notice when raising your tower that all sections raise and lower together (3 and 4 section models only). This gives you a uniform lap between all sections at all times. When the tower is fully extended, all guy wires may now be fastened to the anchors. Do no apply full guy wire tension at this time, just enough to keep the tower in the vertical position until the safety stops are installed.

# #6 Installation of safety stops.

In order to release the tension on the raising and lowering cable, installation of safety stops is required. With safety stops installed, this will eliminate the hazard of small children trying to raise and lower (tower can not be lowered when stops are in place). You will notice when the tower is fully extended that the bottom of the center section is approximately 2" above a horizontal brace on the top of the bottom section. (See drawing). This brace is located about 3' below the top of the lower section. By using a ladder or other means, insert the safety stop at this point. After the stop is installed, lower the tower by using the hand winch until the middle section is resting on the safety stop. You will notice that the raising and lowering cable is now slack and all tension is removed from same. DO NOT ATTEMPT TO CLIMB THE TOWER WITHOUT THE SAFETY STOPS. NEVER CLIMB ANY PORTION OF THE TOWER USING ONLY THE WINCH CABLE TO SUPPORT THE LOAD. You may now proceed to install the safety stop at the 37' and/or 54' level. (This applies to towers with three and four sections.) This stop should also be installed by using a ladder or other means. After all safety stops are in place, you may now release all tension on the raising winch and remove the handle for storage in a safe place.

#### #7 Guy Wire Tension.

All guy wires can now be tightened to final tension. Do not apply over 200% tension to any one guy wire.



ALL GUY WIRE IS "DIAMETER.

GUY WIRE LENGTHS HAVE BEEN CALCULATED TO ALLOW APPROXIMATELY 3 FEET FOR CONNECTIONS AND SAGIN THE GUY WIRE AND ASSUMING LEVEL GROUND FOR THE INSTALLATION OF THE TOWERS.

DRAWNL HOFFMAN	CUSTOMER	TITLE
CHECKED		GUY CHART FOR
APPROVED		MODEL NO.6 CRANK-UP TOWER
DATE JUN. 27,1962	ROHN MFG. CO.	DRAWING NO.
SCALE 1 = 1'-0"	PEORIA, ILLINOIS	A-620627

# GUYING KIT PARTS LIST FOR ROHN #6 CRANK-UP TOWERS

# GUYING KIT K637 for MODEL 637G - 37' CRANK-UP TOWER

Anchors spaced  $120^{\circ}$  apart, 20' from base of tower. Guys attached at the 20' and 37' levels on the tower.

1/8" galvanized H.S. guy wire	2501
1/8" malleable cable clamps	24
1/4" guy thimbles	12
GAS-604 screw type earth anchors	3
3/8" x 6" E&E turnbuckles	6
EP-2534-3 equalizer plates	3

# GUYING KIT K654 for MODEL 654G - 54' CRANK-UP TOWER

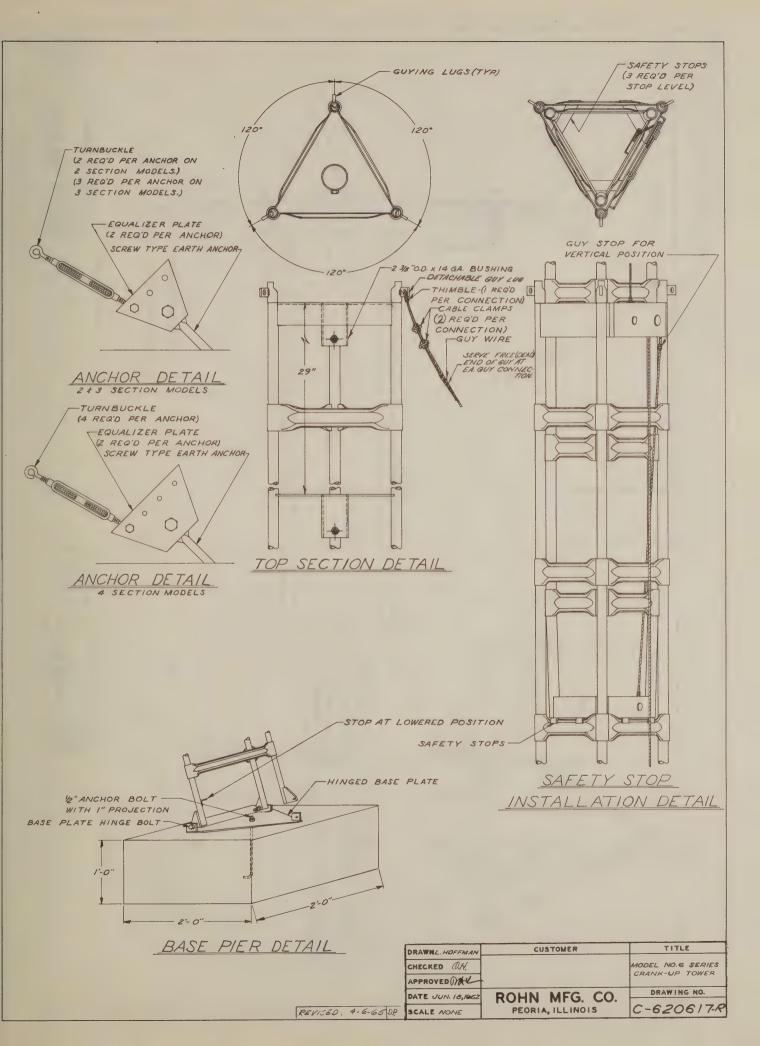
Anchors spaced  $120^{\circ}$  apart, 30' from base of tower. Guys attached at the 20', 37', and 54' levels on the tower.

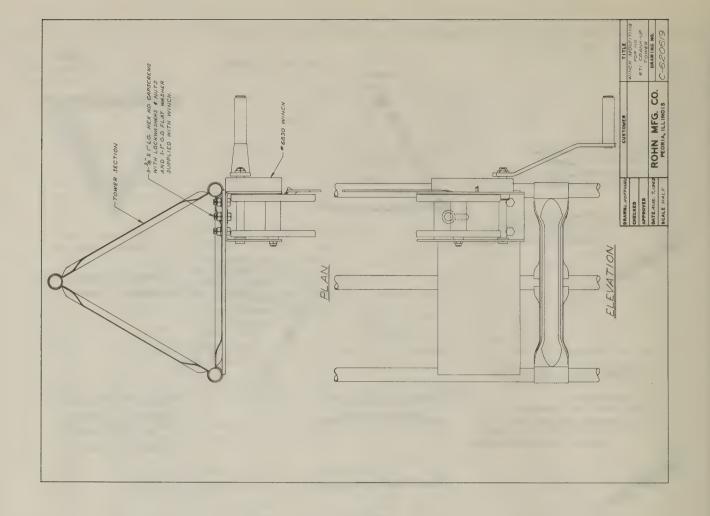
1/8" galvanized H.S. guy wire	5001
1/8" malleable cable clamps	36
1/4" guy thimbles	18
GAS-604 screw type earth anchors	3
3/8" x 6" E&E turnbuckles	9
EP-2534-3 equalizer plates	3

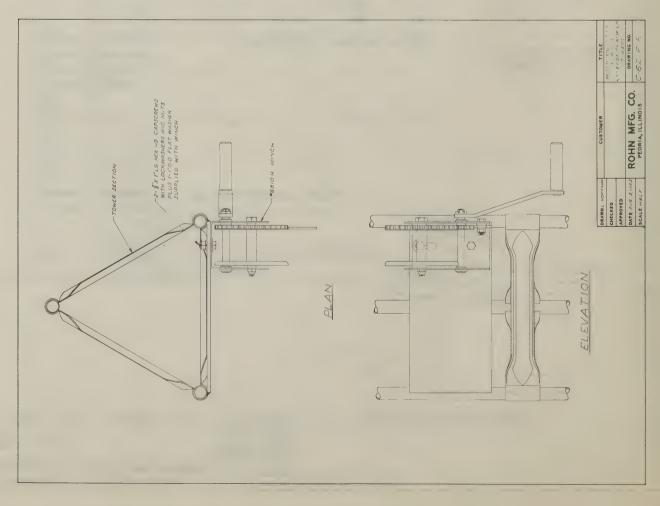
# GUYING KIT K671 for MODEL 671G - 71' CRANK-UP TCWER

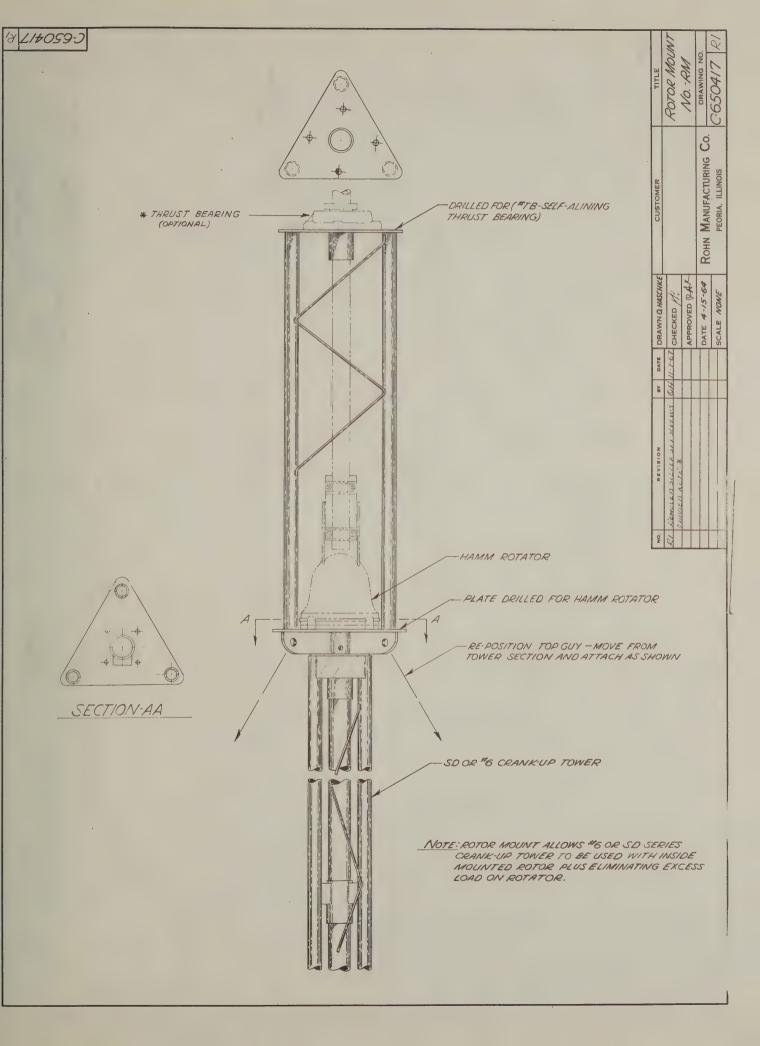
Anchors spaced  $120^{\circ}$  apart, 40' from base of tower. Guys attached at the 20', 37', 54', and 71' levels on the tower.

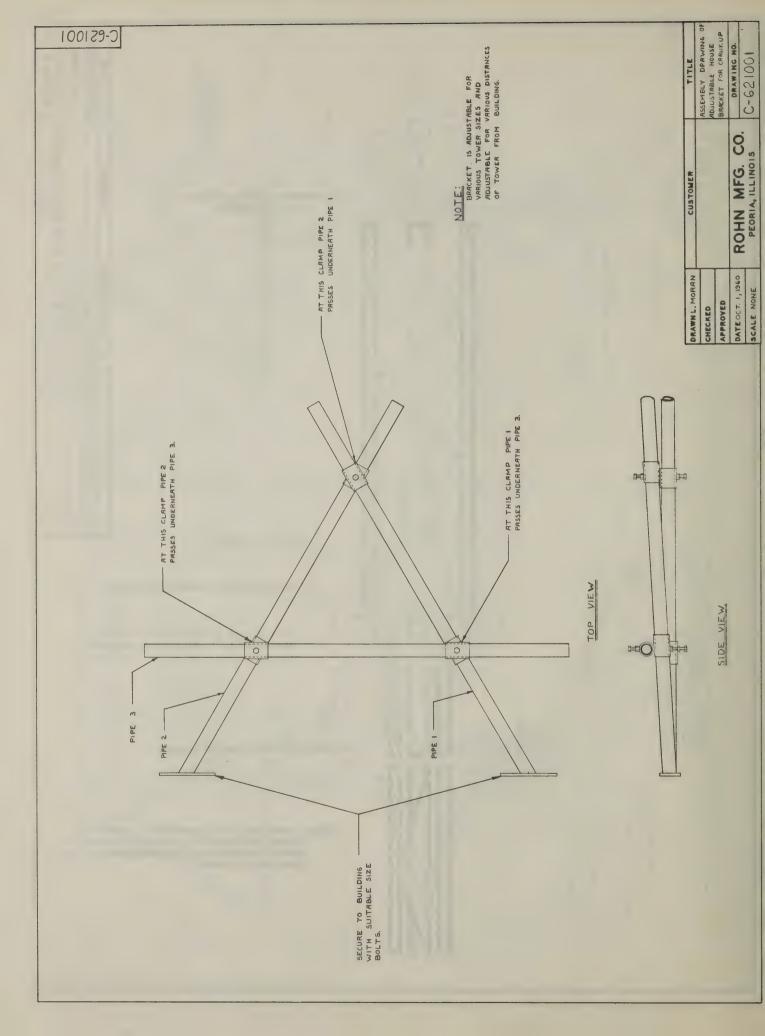
1/8" galvanized H.S. guy wire		8001
1/8" malleable cable clamps	,	48
1/4" guy thimbles		24
GAS-604 screw type earth anchors		. 3
		, .12
EP-2534-5 equalizer plates		3











## HD HEAVY DUTY HAM & INDUSTRIAL CRANK-UP TOWERS

(Tower includes mounting plate for mounting Ham 'M" rotor inside top section)

PART NO.		LIST	SUGG'D. DEALER	CRATED WTS.
HD3-4-37G	Heavy duty 37' crank-up tower with roller guides and safety stops. Hot-dipped galvanized. Top section 14" wide, bottom section 18-1/16" wide. (CRATED)	760.00	530.00	525
HD3-5-54G	Heavy duty 54' crank-up tower with roller guides and safety stops. Hotdipped galvanized. Top section 14" wide, bottom section 22-1/8" wide. (CRATED)	1115.00	780.00	725
HD3-6-71G	Heavy duty 71° crank-up tower with roller guides and safety stops. How dipped galvanized. Top section 140° wide, bottom section 26-3/16° wide. (CRATED)	1620.00	1135.00	1125
HD3-7-88G	Heavy duty 88' crank-up tower with roller guides are safety stops. Hot-dipped galvanized Top section 14" wide, bottom section 30-1/4" wide. (CRATED)	2250.00	1575.00	1575

## GUYING KIT COMPLETE FOR ABOVE TOWERS

(Consists of necessary guy wire, turnbuckles, cable clamps, anchors, etc.)

	(consists of necessary gay wire, turnbackles,	cable clamps, an	chors, etc.)	
GKSD-2	Guy kit for HD3-4-37G tower	115.00	80.00	50
GKSD-3	Guy kit for HD3-5-54G tower	150.00	105.00	78
GKSD-4	Guy kit for HD3-6-71G tower	210.00	145.00	104
GKSD-5	Guy kit for HD3-7-88G tower	260.00	180.00	138
	ANTENNA MAST GALVANIZE	<u>ID</u>		
M200	Mast, 10' long, 2" O.D., 16 ga.	11.45	8.00	14
M200-H	Mast. 10' long. 2" 0.D., 1/8" wall	21.45	15.00	30

NOTE: See reverse side for necessary bases for above towers.

NOTE: Field motorizing of unit not recommended.

NOTE: Unloading of all shipments is customer's responsibility. Inspect your tower very carefully before using it to make sure it works properly. ROHN cannot assume any responsibility after any crank-up tower leaves its plant.

NOTE: Prices on towers include a skid, bracing, enclosure, and steel banding (all for the protection of the tower in handling and shipping).

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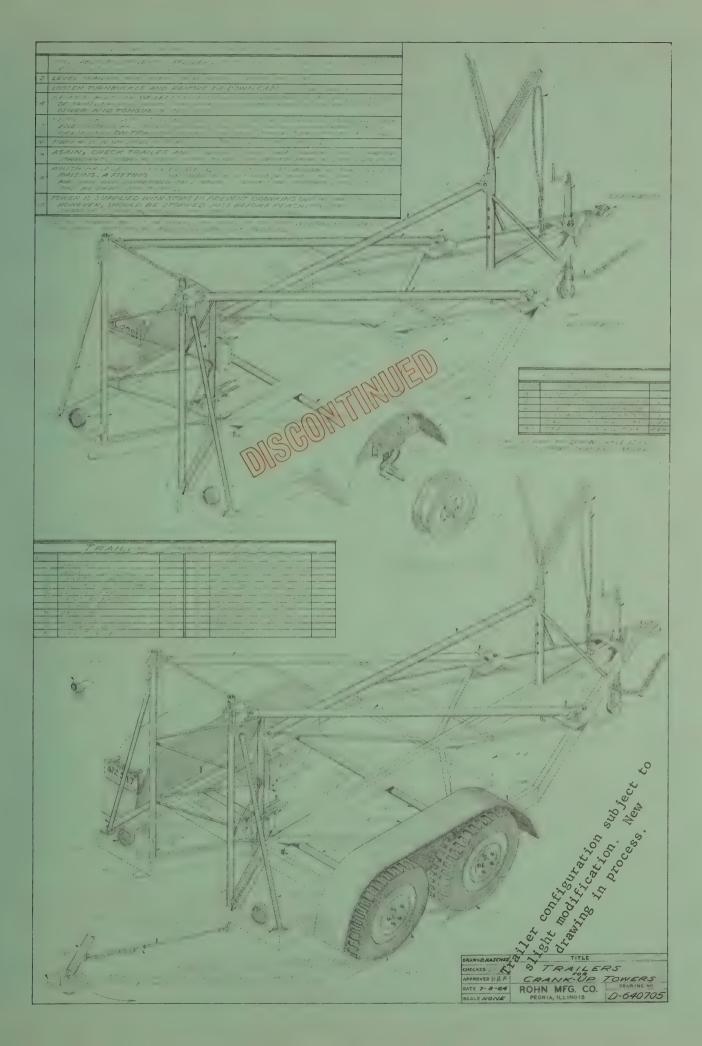
# HD HEAVY DUTY TOWER BASES

PART NO.		LIST	SUGG'D. DEALER	WT.
FLAT BASE -	HINGED (With Concrete Bolt) - Used for mounting slab.	tower on top	of a concr	ete
FB-4 FB-5 FB-6 FB-7	Flat base for HD3-4-37G tower Flat base for HD3-5-54G tower Flat base for HD3-6-71G tower Flat base for HD3-7-88G tower	20.00 23.00 29.00 34.00	14.90 16.00 20.00 24.00	16 20 25 30
CONCRETE BAS	E - HINGED - Used for mounting tower inside a co	ncrete pier.		
CB-4 CB-5 CB-6 CB-7	Concrete base for HD3-4-37G tower Concrete base for HD3-5-54G tower Concrete base for HD3-6-71G tower Concrete base for HD3-7-88G tower	74.00 86.00 103.00 122.00	52.00 60.00 72.00 85.00	58 65 80 95
TILTING BASE	- Used for self-erecting of tower as well as fo servicing antenna on the ground. Price inclu- erecting and folding tower over.			
TBCB-4 TBCB-5 TBCB-6 TBCB-7	Tilting base for HD3-4-37G tower Tilting base for HD3-5-54G tower Tilting base for HD3-6-71G tower Tilting base for HD3-7-88G tower	264.00 343.00 400.00 414.00	185.00 240.00 280.00 300.00	175 220 265 290
нвсР6	Universal house bracket for towers up to 54' high	17.85	12.50	10
HBHD	Universal house bracket for towers up to 122' high	21.45	15.00	15
TB-2	Thrust bearing, ball bearing, self-aligning, for 2" 0.D. tubing	21.45	15.00	8
MRC÷300	Motorized winch for HD series towers, complete with remote control unit with necessary wire and junction boxes	1360.00	950.00	175

NOTE: Safety stops are necessary for permanent tower installations requiring climbing.

# F.O.B. PEORIA, ILLINOIS

<sup>\*</sup> Motorized winch/remote control unit is also made for the SD series towers. Prices available upon request.



# HEAVY DUTY COMMUNICATIONS TRAILERS

The ROHN portable, single axle and dual axle communications trailers are designed to accommodate the ROHN SD Series and HD Series crank-up towers.

IDEAL FOR THE FOLLOWING USES . . .

Fringe area TV antenna testing.
Portable two-way communications.
Microwave survey and testing.
Portable lighting (for construction projects).

PART NO.		LIST	SUGG'D. DEALER	WT.
THD-1	Heavy duty, portable, single axle trailer, with outrigger arms, tilting plate w/winch, wheels, and tires.  Trailer will handle combined weight of tower and load up to 800 lbs.  Trailer designed to accommodate SD Series (up to 88') and HD Series (up to 54').	1939.00	1357.00	1030
THD-2	Extra heavy duty, portable, dual axle trailer, with outrigger arms, tilting plate w/winch, wheels, and tires.  Trailer will handle combined weight of tower and load up to 1500 lbs.  Trailer designed to accommodate SD Series (up to 122') and HD Series (up to 88').	2653.00	1857.00	1510
ACCESSORIES	FOR TRAILER			
	Heavy duty fenders for single axle Heavy duty fenders for dual axle Tool box (12"x12"x36") Electric brakes with controls	194.00 255.00 112.00 255.00	107.15 178.60 78.60 178.60	70 160 65 35

194.00

107.15

10

NOTE: Trailers and assorted accessories subject to Federal Excise Tax.

# F.O.B. PEORIA, ILLINOIS

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Turn, stop, and clearance lights







The ideal answer for tower requirements of amateur radio operators, for experimentation, for TV service and other similar purposes that can utilize this exclusive ROHN "fold-over" tower engineering.

# COMPLETELY HOT-DIPPED GALVANIZED. AFTER FABRICATION!

These special ROHN "fold-over" towers have wide acceptance and acclaim. This tower satisfies a wide range of requirements of those who wish a tower that will conveniently allow service and interchange of antennas and rotators. Amateurs especially find the ROHN "foldover" tower the ideal answer.

The ROHN fold-over towers are structurally designed to handle practically all sizes, types and models of amateur radio antennas. The towers are equilateral triangles with solid steel "zig-zag" cross bracing, all electric welded. Completed towers are approximately 50 feet in height. Guying is necessary at the hinge. Check the specification sheet to obtain the many loads and conditions in which a ROHN fold-over tower will serve your need.

The design permits fold-over of the tower onto the ground so that all servicing work on rotator and/or antenna can be done entirely at ground level. Not only is the work easy to perform, but also there is where safety is foremost! In a matter of minutes, the complete tower is folded over so that the antenna, rotator, etc., are immediately accessible.

The tower includes the necessary 10 foot sections of ROHN tower, plus a top section, a complete hinged section, and the boom and windlass complete with cable.





# **AVAILABLE IN 2 MODELS:**

(1) for ground installation, or (2) for flat roof or other similar type flat surface installation.

Manufacture and exclusive design by

ROHN Manufacturing Co.

S	PECI	SPECIFICATIONS	FOR	ROH	Z	FOLD.	-OVER		TOWERS	
			MODE	EL No	FK	256	Mod	EL No.	不不	456
	ITEMS	S	STD.	SBH	SAH	SABH	STD.	SBH	SAH	SABH
MAX. LIFTING		CAPACITY:		(ALL WI	WINCH CA	CABLE -	5/32"	AIRCRAFT)	AFT)	
SAFE MOMENT	AT	HINGE, FTLBS.	4150	4150	3110	3110	9300	9300	8240	8240
SAFE LOAD	AT	APEX, LBS.	160	160	115	115	061	061	135	135
ANTENNA LO	LOADS -	SAFE:	(USING	3/16"	H.S. GUY	WIRE)	(USING	1/4"	H.S. GUY	WIRE)
WITH	20 DCE	AREA, SQ.FT.	6.2	6.2	2.3	2.3	15.2	15,2	8.3	8,3
GUYS AT	20 73		160	160	115	115	061	061	135	135
HINGE	30 PSF	AREA, SQ.FT.	3.0	3.0			8.9	8.9	3.8	3.8
ONLY		-	091	091			061	061	135	135
WITH GUYS	30 00	AREA, SQ.FT.	13.3	15.4	14.1	11.7	29.1	34.8	33.3	28.4
AT APEX	10 L 03		091	160	115	115	061	061	135	135
AND AT	30 0E	AREA, SQ.FT.	7.7	8.9	6.2	6.2	<u>8</u> .	21.9	20.5	17.2
HINGE	30 735	WEIGHT, LBS.	160	160	115	115	061	061	135	135
PHYSICAL F	PROPERTIES	TIES:								
TOWER HEIGHT	SHT ABOVE	VE BASE, FT.	48	58	58	89	44	54	54	64
DISTANCE - BASE	BASE TO	I	21.5	31.5	21.5	31.5	61	29	61	29
DISTANCE - HINGE TO	HINGE 1	TO APEX, FT.	26.5	26.5	36.5	36.5	25	25	35	35
RADIUS REC	REQUIRED I	FOR BOOM, FT.	18.6	18.6	18,6	18.6	91	91	91	91
WEIGHT - INCLUDING BOOM,	NCLUDIN	G BOOM, LBS.	350	390	390	430	200	570	570	640
WIDTH OF T	OF TOWER 1	TRIANGLE, IN.	12.5	12.5	12.5	12,5	18	18	8	8
SIDE RAIL	RAIL DIAMETER,	rer, IN.	1,25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
SIDE RAIL	THICKNESS,	IESS, GA. NO.	91	91	91	91	14	14	14	14
MAX. WINCH	1 CABLE	TENSION, LBS.	320	320	320	320	420	420	420	420
STD BASIC TOWER;	TOWER;	SBH - SECT. BELOW	OW HINGE	E; SAH	- SECT	ABOVE	ROHN		MFG (	CO.
HINGE; SAB	SABH- SE	SECT. ABOVE AND B	BELOW	HINGE.	7-10-	69 -				
HOT- DIPPED	GALVA	GALVANIZED AFTER FAE	FABRICATION.	Z			ב	DRIA, I	PEORIA, ILLINOIS	

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PRICE SHEET D-83070 (Replaces D-76070) NO. 25 FOLD-OVER TOWERS		Mar. 1,	1972
(Hot-Dipped Galvanized Finish After Fabrication	n)	SUGG'D.	
PART NO.	LIST	DEALER	WT.
FK25G - Ground Installation - Must be Guyed at Hinge			
3 - 25G - 10' sections	400.00	280.00	355
1 - 25AG-4 - Top section - 8' length; upper end termin-			
ating in 11" dia. flat circular plate w/2½" dia. hole in 1 - SB25G - Short base section - 40" - for concrete mounting 1 - Hinge section - 10' 1 - Boom (2 pieces) 1 - Windlass and 40' of cable  NOTE: All hardware for assembly of above included.			
NOIE: All nardware for assembly of above included.			
GGK25G-1 - Ground Guy Kit - For Guying at HINGE ONLY When Using	FK25G		
and When Using Section Above Hinge			
185'- 3/16" E.H.S. galv. guy wire	95.00	65.00	47
24 - 3/16" cable clamps, malleable			
8 - 1/4" galv. thimbles			
4 - 3/8"x6" galv. turnbuckles, E&J			
4 - GAS-604 - Screw guy anchors			
GGK25G-2 - Ground Guy Kit - For Guying at Hinge AND at Top When	Using		
FK25G with Section Below Hinge and/or Above Hinge			
500'- 3/16" E.H.S. galv. guy wire	145.00	100.00	74
48 - 3/16" cable clamps, malleable			
12 - 1/4" galv. thimbles			
8 - 3/8"x6" galv. turnbuckles, E&J			
4 - GAS-604 - Screw guy anchors			
FK25FG - Flat Surface Installation - Must be Guyed at Hinge			
Same as FK25G, except has FR25G flat roof mount	415.00	290.00	369
instead of SB25G short base section.			
FGK25G-1 - Flat Surface Guy Kit - For Guying at HINGE ONLY When	Using		
FK25FG and When Using Section Above Hinge	47 00	. 22 00	10
Same as GGK25G-1, except does NOT have GAS-604 anchors.	47.00	33.00	19
FGK25G-2 - Flat Surface Guy Kit - For Guying at Hinge AND at Top	When Usi	ng	
FK25FG with Section Below Hinge and/or Above Hinge			
Same as GGK25G-2, except does NOT have GAS-604 anchors.	97.00	68.00	46
MTCORT I ANEONO THEMS AVAIT AND B DOD ADOVE HOLDING	1		
MISCELLANEOUS ITEMS AVAILABLE FOR ABOVE TOWERS	•		
TB-2 - Thurst bearing, ball bearing, self-aligning, for	23.60	16.50	8
2" O.D. tubing, bolts to A-4 top.  AB - Hardwood bearing, w/2" hole & drilled to bolt to A-4 top	5 65	2 05	1
AS25G - Accessory shelf. Triangular plate w/2½" hole to mount	5.65 14.80	3.95 10.35	1 4
amateur rotor or mast bearing. Mounts inside tower sect.	14.00	10.33	-
FK25G-SBH-1 - Includes: 25G sect. to be added below hinge, 1	49.30	34.50	48
pulley & 10' longer cable. (When ordered w/FK25G or FK25FG.)			
FK25G-SBH-2 - Includes: 25G sect. to be added below hinge, 1	55.70	39.00	49
pulley & 50° of cable. (For add. to existing FK25G or FK25F0	3.)		
FK25G-SAH - 25G section, to be added above hinge.	34.45	24.10	40
NOTE: Any cataloged top section can be supplied at same price.			
NOTE: The dealer price on FK25G & FK25FG will be \$27.50 higher		25G-SBH-1	& 2 and
FK25G-SAH \$5.50 higher in following states: Ariz., Calif			
Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, & Al			

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PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

# No. 25 Fold-Over Towers PARTS BREAKDOWN PRICES

PARTS	BREAKD	OWN PRICE	<u> </u>		
				SUGG'D.	
PART NO.			LIST	DEALER	WT.
				***************************************	-
FK25G (Ground Mounted)					
3 - 25G tower sections			103.30	72.30	120
1 - 25AG-4 top section			40.25	28.15	31
1 - SB25G short base section			15.85	11.10	10
1 - Hinge section					
			78.60	55.00	56
1 - Boom (2 pcs.) w/sleeve			128.60	90.00	118
1 - Winch (#6810H)			18.10	12.65	7
1 - Winch plate w/2 saddle clamps			14.30	10.00	3
1 - A-clamp for top of boom			15.70	11.00	3
40'- 5/32" aircraft cable			8.60	6.00	2
2 - 1/8" cable clamps			.60	•42	
1 - 1/4" thimble			.20	.15	
4 - 7/16" x 2½" bolts w/nuts			.85	.60	
8 - 5/16" x 2½" bolts w/nuts					
			1.15	.80	
3 - 3/8" x 1" bolts w/nuts, counte	rsunk		.25	.18	
6 - 5/16" x 1" bolts w/nuts			.45	.30	
2 - 1/4" x 1½" U-bolts w/nuts			•45	.30	
$2 - 3/8'' \times 2\frac{1}{2}''$ bolts w/nuts			.30	.20	
$1 - 3/8'' \times 3\frac{1}{2}''$ bolt w/nut			.15	.11	
<b>.</b>	momat o				
	TOTALS	• • • • • •	\$427.70	\$299.26	
myofma (n. f					
FK25FG (Roof Mounted)	_				
Complete FK25G with FR25G flat roo					
SB25G short base section	TOTALS		\$442.70	\$309.26	
FK25G-SBH-1					
1 - 25G section (to be added below	hinge)		34.45	24.10	40
1 - Pulley w/2 saddle clamps			14.30	10.00	7
4 - 5/16" x 2½" bolts w/nuts			.60	.40	′
10'- Longer 5/32" aircraft cable					
			2.15	1.50	
(When ordered with FK25G or FK25FG)					
	TOTALS	• • • • • •	\$ 51.50	\$ 36.00	
FK25G-SBH-2					
1 - 25G section (to be added below	hinge)		34.45	24.10	40
1 - Pulley w/2 saddle clamps			14.30	10.00	7
4 - 5/16" x 2½" bolts w/nuts			.60	.40	•
50'- 5/32" aircraft cable			10.70		2
(For addition to existing FK25G or FK	25EC)		10.70	7.50	2
(10- addition to existing PR236 of FR			è 60 05	à /a aa	
	TOTALS	• • • • • •	\$ 60.05	\$ 42.00	
DIZOEC CAN					
FK25G-SAH					
1 - 25G section (to be added above	hinge)	• • • • • •	\$ 34.45	\$ 24.10	40

NOTE: Fold-over towers must be guyed. See complete guy kits on reverse side, as well as fold-over tower Specifications Sheet No. A-690722 showing how your particular requirement should be guyed.

NOTE: The dealer price on FK25G & FK25FG will be \$27.50 higher and on FK25G-SBH-1 & 2, and FK25G-SAH \$5.50 higher (also \$5.50 higher on #25 top, tower, and hinge sections) in the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

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	,		
PRICE SHEET D-76170 (Replaces D-68170) NO. 45 FOLD-OVER TOWERS		Apr. 27,	1971
(Hot-Dipped Galvanized Finish After Fabrica	tion)	SUGG'D.	
PART NO.	LIST	DEALER	WT.
FK45G - Ground Installation - Must be Guyed at Hinge			
3 - 45G - 10' sections	570.00	400.00	520
1 - 45AG-4 - Top section - 7' length; upper end termin-			
ating in 11" dia. flat circular plate w/2½" dia. hole i	n center.		
1 - Hinge section - 10 <sup>†</sup> 1 - Boom (2 pieces)			
1 - Windlass and 40' of cable			
NOTE: All hardware for assembly of above included.			
GGK45G-1 - Ground Guy Kit - For Guying at HINGE ONLY When Using	FK45G		
and When Using Section Above Hinge			
185'- 1/4" E.H.S. galv. guy wire	115.00	80.00	60
24 - 1/4" cable clamps, malleable 8 - 1/4" galv. thimbles			
4 - 1/2"x12" galv. turnbuckles, E&J			
4 - GAS-604 - Screw guy anchors			
GGK45G-2 - Ground Guy Kit - For Guying at Hinge AND at Top When	Using		
FK45G with Section Below Hinge and/or Above Hinge			
500'- 1/4" E.H.S. galv. guy wire	195.00	135.00	108
48 - 1/4" cable clamps, malleable 12 - 1/4" galv. thimbles			
8 - 1/2"x12" galv. turnbuckles, E&J			
4 - GAS-604 - Screw guy anchors			
			D-CD-13-D-CASD-( <del>mall-frid</del> (same on
FK45FG - Flat Surface Installation - Must be Guyed at Hinge			
Same as FK45G, except has FR45G flat roof mount added.	610.00	425.00	560
FCK45C-1 - Flat Surface Cuy Vit For Cuying at HINCE ONLY When	77 - °		
FGK45G-1 - Flat Surface Guy Kit - For Guying at HINGE ONLY When FK45FG and When Using Section Above Hinge	Using		
Same as GGK45G-1, except does NOT have GAS-604 anchors.	68.00	48.00	32
The state of the s	00,00	40,00	32
FGK45G-2 - Flat Surface Guy Kit - For Guying at Hinge AND at Top	When Usi	ng	
FK45FG with Section Below Hinge and/or Above Hinge			
Same as GGK45G-2, except does NOT have GAS-604 anchors.	147.00	103.00	80
MISCELLANEOUS ITEMS AVAILABLE FOR ABOVE TO	VERS		
TB-2 - Thrust bearing, ball bearing, self-aligning, for	21.45	15.00	8
2" O.D. tubing, bolts to A-4 top	21.79	13.00	O
AB - Hardwood bearing, w/2" hole & drilled to bolt to A-4 top	5.15	3.60	1
AS45G - Accessory shelf. Plate w/2½" hole to mount amateur	15.75	11.00	9
rotor or mast bearing. Mounts inside tower sect.			
FK45G-SBH-1 - Includes: 45G sect. to be added below hinge, 1	76.30	53.40	75
pulley & 10' longer cable. (When ordered w/FK45G or FK45FG.) FK45G-SBH-2 - Includes: 45G sect. to be added below hinge, 1		FO / 0	0.0
pulley & 50' of cable. (For add. to existing FK45G or FK45FG	84.85	59.40	80
FK45G-SAH - 45G section, to be added above hinge	61.45	43.00	70
	01113	13.00	
NOTE: Any cataloged top section can be supplied at same price.			

NOTE: The dealer price on FK45G & FK45FG will be \$35.00 higher and on FK45G-SBH-1 & 2 and FK45G-SAH \$7.00 higher in the following states: Ariz., Calif., Idaho, Mont., Nev., Ore., Utah, Wash., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

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No. 45 Fold-Over Towers PARTS BREAKDOWN PRICES

PARTS BREAKDOWN PRICES	3		
DADE NO		SUGG'D.	
PART NO.	LIST	DEALER	WT.
FK45G (Ground Mounted)			
3 - 45G tower sections	184.35	129.00	210
1 - 45AG-4 top section	71.45	50.00	52
1 - Hinge section	117.85	82.50	100
1 - Boom (2 pcs.) w/sleeve	150.00	105.00	128
1 - Winch (#6830H)	28.60	20.00	. 7
1 - Winch plate w/2 saddle clamps	15.70	11.00	3
1 - A-clamp for top of boom	17.15	12.00	5
40'- 5/32" aircraft cable	8.60	6.00	2
2 - 1/8" cable clamps	.60	.40	
1 - 1/4" thimble	.20	.15	
19 - 7/16" x 2½" bolts w/nuts	4.10	2.85	
23 - 5/16" x 2½" bolts w/nuts	3.30	2.30	
3 - 3/8" x 1" bolts w/nuts, countersunk	. 25	.18	
6 - 5/16" x 1" bolts w/nuts	.45	.30	
4 - 1/4" x 1½" U-bolts w/nuts	.85	.60	
$2 - 7/16'' \times 2\frac{1}{2}''$ bolts w/nuts	.45	.30	
1 - $3/4$ " x $3\frac{1}{2}$ " boom pin w/cotter pin	.70	50	
TOTALS	\$604.60	\$423.08	
TV/570 (D. 6 November 1)			
FK45FG (Roof Mounted)	ò(// (0	6110 00	
Complete FK45G w/FR45G flat roof mount added	\$644.60	\$448.08	
FK45G-SBH-1			
1 - 45G section (to be added below hinge)	61.45	42.00	7.0
1 - Pulley w/2 saddle clamps	14.30	43.00	70
3 - 7/16" x 2½" bolts w/nuts	.65	10.00	7
7 - 5/16" x 2½" bolts w/nuts		.45	
10'- Longer 5/32" aircraft cable	1.00 2.15	.70	
(When ordered with FK45G or FK45FG)	2.13	1.50	
TOTALS	\$ 79.55	\$ 55.65	
	Y , , , , , , ,	φ 55.05	
FK45G-SBH-2			
1 - 45G section (to be added below hinge)	61.45	43.00	70
1 - Pulley w/2 saddle clamps	14.30	10.00	7
3 - 7/16" x 2½" bolts w/nuts	.65	.45	•
7 - 5/16" x 2½" bolts w/nuts	1.00	.70	
50'- 5/32" aircraft cable	10.70	7.50	
(For addition to existing FK45G or FK45FG)	200,0		
TOTALS	\$ 88.10	\$ 61.65	
PV/EQ CAN			
FK45G-SAH	A 63 45		
1 - 45G section (to be added above hinge)	\$ 61.45	\$ 43.00	70
3 - 7/16" x 2½" bolts w/nuts 3 - 5/16" x 2½" bolts w/nuts			
J - 3/10 x 24 boits w/nuts			

NOTE: Fold-over towers must be guyed. See complete guy kits on reverse side, as well as fold-over tower Specifications Sheet No. A-690722 showing how your particular requirement should be guyed.

NOTE: The dealer price on FK45G & FK45FG will be \$35.00 higher and on FK45G-SBH-1 & 2, and FK45G-SAH \$7.00 higher (also \$7.00 higher on #45 top, tower, and hinge sections) in the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

# F.O.B. PEORIA, ILLINOIS

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# ROHN MANUFACTURING CO. PEORIA. ILLINOIS

# INSTALLATION INSTRUCTIONS FOR #25 FOLD-OVER TOWER

<u>Selection of tower location:</u> Select a position sufficiently clear of trees, wires, buildings, etc., to permit a free swing of the hinged portion of the tower, antenna and boom. The location should be suitable for placing four guy anchors at distances indicated on draw.

Installation of base section: Dig a hole 24" square by approximately 36" deep. Spread about 2" of gravel in the bottom of the hole prior to setting the short base section; then set the base section on the gravel, being sure the correct end is up, and fill another 3" with gravel around the legs of the base. This allows the tower base legs to extend the required amount below the base of the concrete, thus allowing for drainage of moisture into the gravel. Before pouring the concrete, coat the base section in an area about 3" above and 3" below the space where the top of the concrete base will be, using a waterproof asphalt type material. If the tower is near a building, set the base so that two of the tower legs lie in a plane perpendicular to the wall of the building. This will cause the hinge axis to also be at right angles to the wall and the tower will fold without interference from the building. With the base thus set, pour the concrete around it and check its erectness with a carpenter's level on one or more of the legs of the tower. Crown the top of the concrete slightly to hasten water run-off. Flat surface installations naturally eliminate this paragraph.

Erection of the tower: After the concrete has hardened with the first section in place, continue with the second section. This is hastened if an erection fixture is used. An additional 10' tower section can be added below and above the hinged section (see drawing) to bring the total height of the tower to 58° or 68°.

Hinged section: With the shipping tab bolted closed, lift the hinged section into place, being sure to place the hinge on the correct side of the tower. Guy wires are then installed on the guying tabs near the hinge point (see drawing). The boom is then installed on the hinged section.

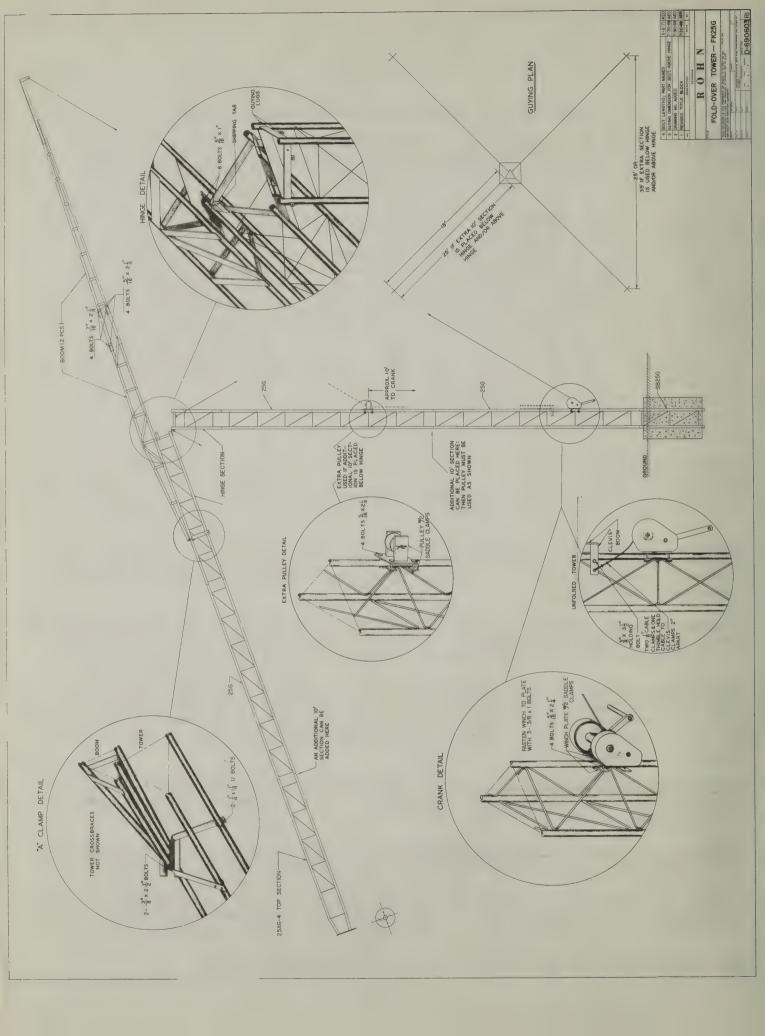
Assembly of boom: With the use of a long tapered punch, bring the bolt holes of the two parts of the boom into alignment. Be careful not to enlarge the bolt holes. Tighten the bolts until the sleeves are slightly flattened so they grip the tubing within.

Installation of boom (lever) section: First, leaving the hinge section bolted closed, hoist the boom into position and fasten it to the hinge section by means of the six 5/16" x 1" bolts as shown in "Hinge Detail" on the drawing. Next, secure the extreme top of the boom, using the "A" clamp with two 3/8" x 2-1/2" bolts and two U bolts (see drawing). Do not tighten the U bolts too tightly.

<u>Installation of final sections</u>: Erect the remaining sections in the usual manner. All bolts securing legs should be tightened enough to partially flatten the outer sleeve until it actually grips the leg within it.

Installation of reel and cable mechanism: Bolt the reel and cable mechanism to the tower legs of the lower section of the tower, just below the clevis on the boom, with the four 5/16" x 2-1/4" bolts as shown in the drawing. If an additional 10 tower section is placed below the hinge section, the extra pulley must be installed just below the clevis on the boom (see drawing). Cable must be secured with two cable clamps and one wire rope thimble to the boom clevis and with two cable clamps to the reel.

THE ABOVE INSTRUCTIONS ARE FACTORY TESTED. PLEASE FOLLOW CAREFULLY.



# ROHN MANUFACTURING CO. PEORIA, ILLINOIS

# INSTALLATION INSTRUCTIONS FOR #45 FOLD-OVER TOWER

Selection of tower location: Select a position sufficiently clear of trees, wires, buildings, etc., to permit a free swing of the hinged portion of the tower, antenna and boom. The location should be suitable for placing four guy anchors at distances indicated on drawing.

Installation of base section: Dig a hole 30" square by approximately 36" deep. Spreadabout 2" of gravel in the bottom of the hole prior to setting the first section; then set the section on the gravel, being sure the large sleeve end is down, and fill another 3" with gravel around the legs of the base. This allows the tower base legs to extend the required amount below the base of the concrete, thus allowing for drainage of moisture into the gravel. Before pouring the concrete, coat the base section in an area about 3" above and 3" below the space where the top of the concrete base will be, using a waterproof asphalt type material. If the tower is near a building, set the base so that two of the tower legs lie in a plane perpendicular to the wall of the building. This will cause the hinge axis to also be at right angles to the wall and the tower will fold without interference from the building. With the base thus set, pour the concrete around it and check its erectness with a carpenter's level on one or more of the legs of the tower. Crown the top of the concrete slightly to hasten water run-off. Flat surface installations naturally eliminate this paragraph.

Erection of the tower: After the concrete has hardened with the first section in place, continue with the second section. This is hastened if an erection fixture is used. An additional 10' tower section can be added below and above the hinged section (see drawing) to bring the total height to 54' or 64'.

Hinged section: With the shipping tab bolted closed, lift the hinged section into place, being sure to place the hinge on the correct side of the tower. Guy wires are then installed on the guying tabs near the hinge point (see drawing). The boom is then installed on the hinged section.

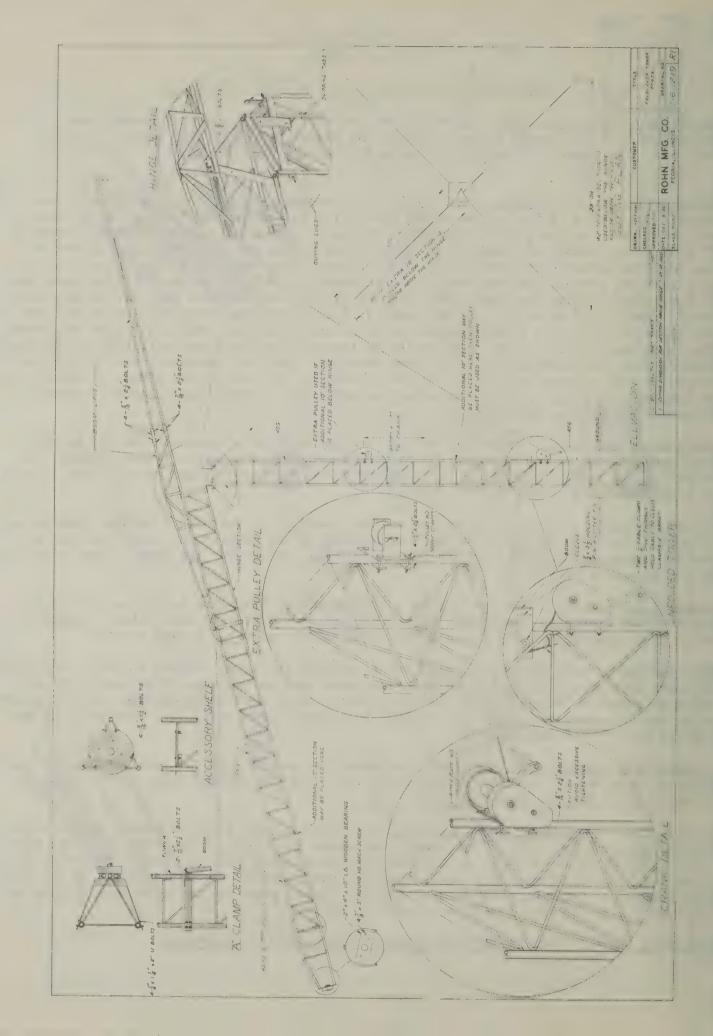
Assembly of boom: With the use of a long tapered punch, bring the bolt holes of the two parts of the boom into alignment. Be careful not to enlarge the bolt holes. Tighten the bolts until the sleeves are slightly flattened so they grip the tubing within.

Installation of boom (lever) section: First, leaving the hinge section bolted closed, hoist the boom into position and fasten it to the hinge section by means of the six 5/16" x 1" bolts as shown in "Hinge Detail" on the drawing. Next, secure the extreme top of the boom, using the "A" clamp with two 1/2" x 2-1/2" bolts and four U bolts (see drawing). Do not tighten the U bolts too tightly.

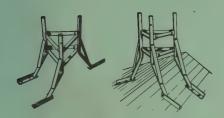
<u>Installation of final sections</u>: Erect the remaining sections in the usual manner. All bolts securing legs should be tightened enough to partially flatten the outer sleeve until it actually grips the leg within it.

Installation of reel and cable mechanism: Bolt the reel and cable mechanism to the tower legs of the lower section of the tower, just above the clevis on the boom, with the four 5/16" x 2-1/4" bolts as shown in the drawing. If an additional 10' tower section is placed below the hinge section, extra pulley must be installed just above the clevis on the boom (see drawing). Cable must be secured with two cable clamps and one wire rope thimble to the boom clevis and with two cable clamps to the reel.

THE ABOVE INSTRUCTIONS ARE FACTORY TESTED. PLEASE FOLLOW CAREFULLY.



# Tower Accessories



# PEAK ROOF MOUNT

Heavy duty for quick, secure mounting of tower to top of peak roof. Base mounting flanges hinged . . . permits mounting to any angle roof. Flanges fastened to roof with 2 lag screws in each flange. Adaptable as regular short-height roof installations. Note: towers mounted on this base must be bracketed or guyed.



# FLAT ROOF MOUNT

For mounting tower on any type flat surface. Three solid steel projections permit first section of tower to be mounted directly onto roof mount by inserting usual bolts. Use when concrete footing is impossible or unwanted.

Note: towers mounted on this base must be bracketed or guyed.

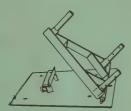
# DRIVE-IN BASE PLATE



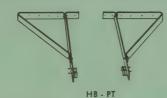
Base plate is set on top of ground. Three - 4' drive rods driven through base into ground. Instant, on-the-spot erection.

Note: towers mounted on this base must be bracketed or guyed.

HINGED BASE PLATE



Designed to permit easy erection of "ground assembled" tower . . . no need for climbing. Holes are provided in the plate for anchor bolting to a firm base such as a concrete slab. Note: towers mounted on this base must be bracketed or guyed.



# UNIVERSAL ADJUSTABLE HOUSE BRACKET

This unit fits all towers having I" side rails. Spacing between wall and tower adjustable from 12" to 24". Bracket's rugged universal design adapts it to many installations that the standard HB bracket does not satisfy. Also affords greater opportunity to fasten through siding to studs on both sides of the bracket.

# UNIVERSAL EAVE BRACKET

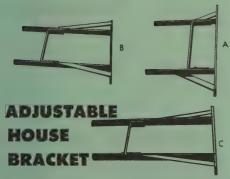


Used for under or over the eave mounting, this bracket assures more stability than a wall mounted bracket because it fastens higher on the tower and its free length can be shorter. The U-bolt ends can be swiveled or the long ends bent to match any pitch. Its two piece design gives the installer ample opportunity to fasten directly to a rafter. Holes are arranged to give 16" and 24" spacing. Fits all towers with 1" —11/4" side rails.

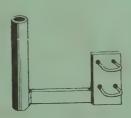
# **EAVE BRACKET**



Specially designed eave bracket for use under eaves in tower installation Fastens quickly and easily giving firm, secure support to tower.

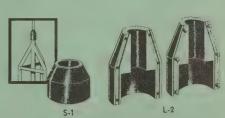


For added support and to prevent adverse effects from freezing and loose ground. Mount bracket against side of house. Center clamp is removed and placed around tower and fastened with two bolts. Center bracket is adjustable. Type A adjustable from 1" to 15"; type B from 15" to 24". type C from 24" to 36".



# ROTOR POST

Rotor post attaches to tower leg with 2 U-bolts. Quickly installed and may be swiveled about the leg and moved up and down to positions suitable for all popular type rotators.



# RUBBER TOWER GROMMETS

Form a water-dirt-tight seal on the top of towers where rotatable antenna mast passes through tower bushing. Eliminates rotator slow-up due to friction or freezing. Fits all standard towers with 11/4" mast tubing.

FOR PRICES AND PART NUMBERS, SEE TOWER CATALOG SHEETS

# Tower Accessories





# TORQUE BAR

Use with Rohn guying bracket. Attaches to guying pinion. Prevents twisting and turning . . . adds strength to your tower. Recommended whenever guying bracket is used.



SCREW ANCHOR



# ALL-PURPOSE ERECTION FIXTURE

Light weight aluminum construction without sacrificing sturdiness. Bottom part of fixture attaches to tower side rail permitting next section to be pulled up by rope through the pulley mechanism.



**GUY-GRIP** dead-ends

# INSULATOR SECTION

Permits the tower to be used as guyed "series fed" vertical radiators by amateur or commercial stations. May be installed in a concrete base or between regular sections at some distance up the tower. Individual insulators are rated at 7.5 KV; wet flashover voltage 40 KV.



# **GUYING ASSEMBLY**

Specially made guy bracket for ROHN towers using "Zig Zag" design. Makes guying easier and better. Takes strain off of tower legs and allows equal distribution of pull throughout bracket.



# ACCESSORY SHELF

Circle plate with 21/4" hole to mount heavy rotor on mast bearing. Mount inside of tower.

# ACCESSORY PLATFORM

Rectangular platform for use on top of straight tower section for mounting accessories.

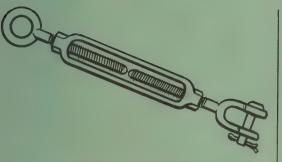


FOR PRICES AND PART NUMBERS, SEE TOWER CATALOG SHEETS

Designed and Manufactured Exclusively By:

ROHN Manufacturing Co
Peoria, Illinois

# Accessories for Communication Towers



# TURN BUCKLES "EYE AND JAW" TYPE

Heavy-duty drop-forged weldless turn buckles for guying towers. Hot dipped galvanized throughout. "Eye" on one end with convenient "jaw" on other end for fast, convenient installation.



# WIRE ROPE THIMBLES

These thimbles are ideally suited for guy wires when guying towers. Have rounded points and are deep scored. Hot dipped galvanized.



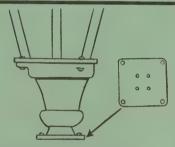
# CABLE CLAMPS

Best quality iron base with high strength steel U-clamps. Hot dipped galvanized.



#### **GUY WIRE**

Double galvanized, EXTRA HIGH STRENGTH guy wire. Full 7 wire strand and preformed. Available in variety of "strength in pounds" rating, which is the important factor in determining the proper guy wire to use. In coils or in reels.



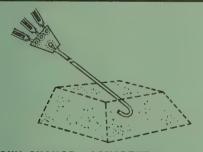
# BASE INSULATOR, (Single Type)

Special base insulator suitable for use with towers. Ready drilled holes for easy attachment of tower legs. Also available with drilled footing plate for fastening onto concrete anchor bolts.



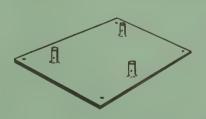
#### STRAIN INSULATOR

Heavy-duty strain insulator made of porcelain. Also available with insulator clevis with bolt for use in fastening.



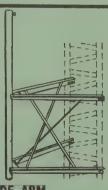
# **GUY ANCHOR—CONCRETE**

Specially made guying anchor for setting in concrete base. Ready for fastening turnbuckles. Excellent assembly for quickly and efficiently guying towers. Complete with twin equalizer plates.



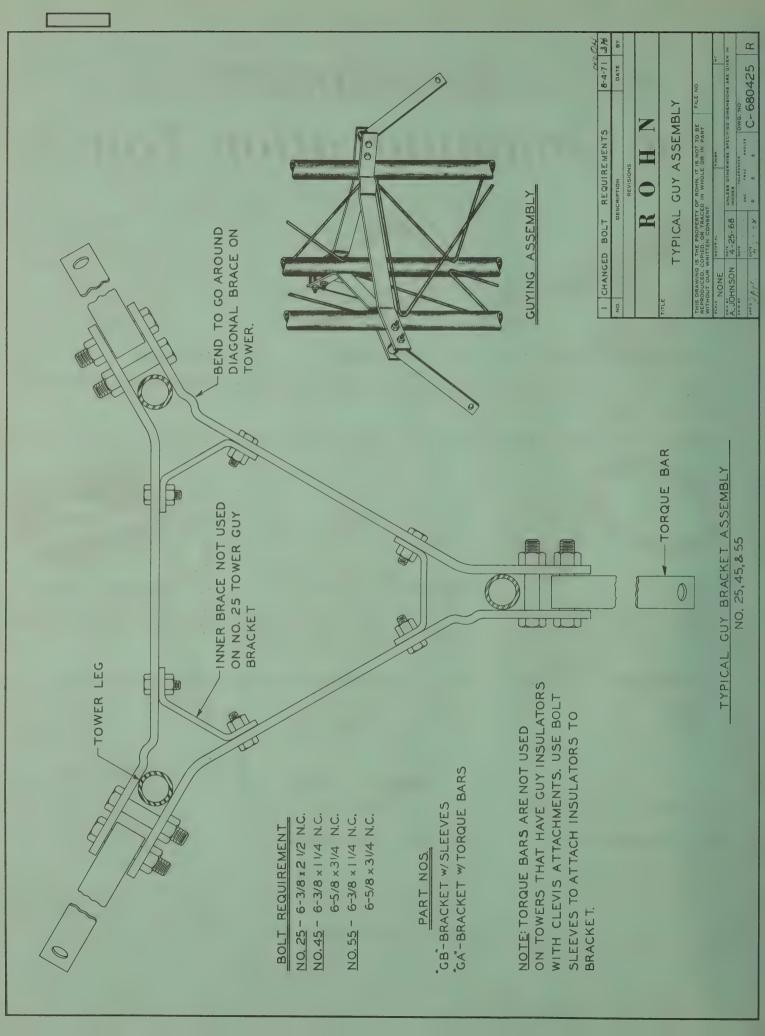
#### BASE PLATE—CONCRETE (BPC)

Steel base plate for mounting tower on concrete slab. Ready drilled for anchor bolts and comes complete with 3 stubs already drilled for quick fastening to tower legs. Note: towers mounted on this base must be bracketed or guyed.



SIDE ARM

Specially designed short side arm for attaching to tower leg for mounting additional communication antennas or whenever tower top must be used for lighting. Various sizes available to fit the requirements for different types of antenna.



# ACCESSORIES

PART NO.	CITY LYTER GAT WANTERED 7 GERAND TO	LIST	SUGG'D.  DEALER	WT.
	GUY WIRE GALVANIZED 7-STRAND - PR	EFURMED		
1/8" H.S.	1/8" guy wire - high strength 1,330 lbs. breaking strength	62.00/Mft	43.00/Mft	30/Mft
3/16" E.H.S.	3/16" guy wire - extra high strength 3,990 lbs. breaking strength	82.00/Mft	57.00/Mft	68/Mft
1/4" E.H.S.	1/4" guy wire - extra high strength 6,650 lbs. breaking strength	120.00/Mft	84.00/Mft	120/Mft
5/16" E.H.S.	5/16" guy wire - extra high strength 11,200 lbs. breaking strength	179.00/Mft	125.00/Mft	205/Mft
3/8" E.H.S.	3/8" guy wire - extra high strength 15,400 lbs. breaking strength	229.00/Mft	160.00/Mft	273/Mft
7/16" E.H.S.	7/16" guy wire - extra high strength 20,800 lbs. breaking strength	316.00/Mft	221.00/Mft	399/Mft
1/2" E.H.S.	1/2" guy wire - extra high strength 26,900 lbs. breaking strength	399.00/Mft	279.00/Mft	517/Mft
9/16" E.H.S.	9/16" guy wire - extra high strength 35,000 lbs. breaking strength	518.00/Mft	362.00/Mft	671/Mft
-5/8" E.H.S.	5/8" guy wire - extra high strength 42,400 lbs. breaking strength	648.00/Mft	453.00/Mft	813/Mft
	SPECIAL GALVANIZED TURNBUCKLES (HIGH	H STRENGTH)		
3/8" T.B.	3/8" x 6" turnbuckle - eye & eye 6,000# ultimate strength - eye & jaw	3.85 4.35	2.70 3.05	1
1/2" T.B.	1/2" x 12" turnbuckle - eye & eye 11,000# ultimate strength - eye & jaw	7.15 7.70	5.00 5.40	2 2
5/8" T.B.	5/8" x 12" turnbuckle - eye & jaw 17,500# ultimate strength	10.95	7.65	3
3/4" T.B.	3/4" x 12" turnbuckle - eye & jaw 26,000# ultimate strength	16.15	11.30	5
7/8" T.B.	7/8" x 12" turnbuckle - eye & jaw 36,000# ultimate strength	22.85	16.00	8
1" T.B.	1" x 12" turnbuckle - eye & jaw 50,000# ultimate strength	28.10	19.65	10
1½" T.B.	1½" x 12" turnbuckle - eye & jaw	45.70	32.00	19

NOTE: To arrive at safe working load of guy wire and turnbuckles, appropriate safety factor must be applied.

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76,000# ultimate strength

# ACCESSORIES

PART NO.		LIST	SUGG'D.  DEALER	WT.	
	HOT-DIPPED GALVANIZED CABLE CLAMPS				
1/8" C.C.M. 3/16" C.C.M. 3/16" C.C.F. 1/4" C.C.M. 1/4" C.C.F. 5/16" C.C.F. 3/8" C.C.F. 7/16" C.C.F. 1/2" C.C.F. 9/16" C.C.F.	1/8" cable clamp, malleable 3/16" cable clamp, malleable 3/16" cable clamp, forged 1/4" cable clamp, malleable 1/4" cable clamp, forged 5/16" cable clamp, forged 3/8" cable clamp, forged 7/16" cable clamp, forged 1/2" cable clamp, forged 9/16" cable clamp, forged 5/8" cable clamp, forged	.30 .35 1.14 .42 1.35 1.45 1.65 1.80 1.85 2.00 2.15	.21 .25 .80 .30 .95 1.00 1.15 1.25 1.30 1.40	3/100 5/100 15/100 9/100 25/100 30/100 41/100 65/100 75/100 85/100 100/100	
	HOT-DIPPED GALVANIZED THIMBLES				
1/4" Th. 3/8" Th. 1/2" Th. 5/8" Th. 3/8" Th.H 1/2" Th.H 5/8" Th.H 3/4" Th.H	For 1/8", 3/16", 1/4" wire For 5/16", 3/8" wire For 7/16", 1/2" wire For 9/16", 5/8" wire Heavy duty thimble (use w/1/4" & 5/16" wire) Heavy duty thimble (use w/3/8" & 7/16" wire) Heavy duty thimble (use w/1/2" & 9/16" wire) Heavy duty thimble (use w/5/8" wire)	.21 .28 .43 1.00 .71 1.30 1.65 2.95	.15 .20 .30 .70 .50 .90 1.15 2.05	4/100 8/100 14/100 36/100 25/100 50/100 75/100 150/100	
	SERVING TOOL				
CST-1	Serving tool	14.30	10.00	3	
	HOT-DIPPED GALVANIZED ROUND PIN ANCHOR SH	HACKLES			
3/8" S 1/2" S 5/8" S 3/4" S 7/8" S	1 ton safe working load 2 ton safe working load 3 1/4 ton safe working load 4 3/4 ton safe working load 6 1/2 ton safe working load	1.85 2.80 4.65 6.30 8.50	1.30 1.95 3.25 4.40 5.95	30/100 74/100 144/100 216/100 337/100	
GUY INSULATORS					
502	Guy strain insulator, closed end type 10,000 lbs. strength	2.50	1.75	1	
INSULATOR CLEVISES					
J-705 J-726	Use with 502, 7M lbs. strength, 4" length Use with 502, 13M lbs. strength, 4" length	3.10 5.00	2.15 3.50	82/100 128/100	

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7/8" x 16" BB 3/4" x 12" PP Pier pin 2.50 1.75 1 7/8" x 16" PP 4.10 3 Pier pin 2.85 1" x 16" PP 5.35 3.75 3 Pier pin EARTH SCREW ANCHOR 6" screw plate with 5/8"x4' rod and 11.45 8.00 7 GAS-604 eye (holding power, 2500 lbs.)

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PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

PRICE SHEET	T D-77670 2S D-73670) ACCESSORIES		Apr. 3	0, 1971
PART NO.	, , , , , , , , , , , , , , , , , , , ,	LIST	SUGG'D. DEALER	ur
#PRINTED and works (Section Supple Section Sec	GROUNDING KITS	TIDI	DEALEK	<u>WT.</u>
BGK	Base Grounding Kit  1 - 5/8" x 8" copper rod  1 - Brass tower attachment lug w/hdw.  1 - Brass rod clamp  10'- #4 solid copper wire	22.85	16.00	10
BGKE	Base Grounding Kit  1 - 5/8" x 8' galvanized rod  1 - Tower attachment lug w/hdw.  1 - S-58 rod clamp  5'- #6 solid copper wire	12.15	8.50	10
AGK	Anchor (Wire) Grounding Kit (For 3 Anchors)  3 - 5/8" x 8' copper rods  3 - Brass rod clamps  9 - Guy wire ground clamps  30'- #4 stranded copper wire	85.70	60.00	30
R <b>G</b> K	Anchor Rod Grounding Kit (For 3 Anchors)  3 - 5/8" x 8' copper rods  3 - Brass rod clamps  3 - Brass attachment lugs w/hdw.  15'- #4 solid copper wire	64.30	45.00	24
AGKE	Anchor (Wire) Grounding Kit (For 3 Anchors)  3 - 5/8" x 8' galvanized rods  3 - S-58 rod clamps  9 - Guy wire ground clamps  30'- #6 solid copper wire	55 <b>.7</b> 0	39.00	30
RGKE	Anchor Rod Grounding Kit (For 3 Anchors)  3 - 5/8" x 8' galvanized rods  3 - S-58 rod clamps  3 - Attachment lugs w/hdw.  15'- #6 solid copper wire	31.45	22.00	24
	GROUND RODS & ACCESSORIES			
GR8G	5/8" x 8' galvanized rod with ground	6.10	4.25	8
GR8C	wire clamp 5/8" x 8' copper rod with ground wire clamp	17.15	12.00	8
GR10C	3/4" x 10' threaded copper rod with	32.85	23.00	14
3/4C	ground wire clamp  3/4" ground rod coupling (to join GR10C	4.65	3.25	1/2
3/4D	together and required when 3/4D used) 3/4" ground rod driver (for use w/GR10C)	2.85	2.00	1/2
CW4S	COPPER WIRE			
CW4S CW4ST CW2S CW2ST	#4 solid #4 stranded #2 solid #2 stranded	.30/ft .31/ft .46/ft .49/ft	.21/ft .22/ft .32/ft .34/ft	125/Mft 125/Mft 200/Mft 200/Mft

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# ACCESSORIES

PART NO.		LIST	SUGG'D. DEALER	WT.
	GUY GRIPS (DEAD END) FOR 7-STRAND GALV  COMPLETE WITH END SLEEVE		VIRE	
BG-2142	3/16" guy grip, 23" length, complete	2.50	1.75	28/100
BG-2144	with GC-65303 end sleeve 1/4" guy grip, 27" length, complete	2.85	2.00	38/100
B <b>G-21</b> 46	with GC-65136 end sleeve 5/16" guy grip, 33" length, complete with GC-65128 end sleeve	3.50	2.45	66/100
BG-2147	3/8" guy grip, 37" length, complete with GC-65264 end sleeve	4.15	2.90	95/100
BG-2148	7/16" guy grip, 40" length, complete with GC-65265 end sleeve	6.15	4.30	140/100
BG-2115	1/2" guy grip, 50" length, complete with GC-65266 end sleeve	8.10	5.65	229/100
B <b>G-211</b> 6	9/16" guy grip, 55" length, complete with GC-65267 end sleeve	10.35	7.25	342/100
BG-2111	5/8" guy grip, 64" length, complete with GC-65268 end sleeve	26.95	18.85	355/100

NOTE: See drawing for procedure to apply end sleeves on guy grips. End sleeves must be used on all guy grips.

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# TO ACHIEVE MAXIMUM COVERAGE WITH THE END SLEEVE, THE APPLICATION SHOULD BE CONDUCTED IN

(BE SURE TO SELECT PROPER SIZE END SLEEVE)



PLACE THE SLOT SIDE OF THE DE END SLEEVE OVER THE LONG THE LES OF THE DEAD-END.

DRIVE THE SLEEVE DOMINIMARD UNTIL THE ROOS OF SHORT LEG ARE COM-PLETELY COVERED.

THE RODS OF THE LONG LEG SHOULD BE EVEN WITH, OR MAY EXTEND ABOVE, THE TOP EDGE OF THE SLEEVE. R O H N

NO.

DATE

FOR GUY-GRIP END SLEEVE

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	FIED DIMENSIONS A	DWG. NO.	10001-8 # #
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# ROHN No. 45

# COMMUNICATION TOWER

This communication tower is an 18 inch triangular pattern suitable for heights to 300 feet with proper guying!

# DESIGN

ROHN No. 45 tower is designed in an 18 inch equilateral triangular pattern. The three legs of the tower are of heavy, 14 gauge, special quality steel. The cross bracing is the ROHN "zig-zag" design using a continuous, solid steel rod, electric welded to side rails every 15 inches. All sections are 10 feet in length.

#### USAGE

This tower is suitable for mounting communication antenna under normal conditions for all heights up to a maximum of 300 feet. See specification sheets for complete guying and wind load information.

#### CONSTRUCTION

Entire tower is accurately constructed, utilizing precision machines and then electric welded throughout. Workmanship and materials are of the highest quality available and fully conforming to specifications.

#### EIKITELL

ROHN No. 45 tower sections are completely hot-dipped galvanized after fabrication to give permanent protection against corrosion. Because sections are galvanized as the last operation, all points of welding and other points of construction are fully covered with molten zinc that continues to seal itself should there ever be any breakage on the surface!

# TO ORDER:

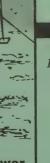
SPECIAL NOTE!
The No. 45 tower sections are completely in-

terchangeable with the

ROHN No. 40 tower

sections!

See reverse side of this sheet for catalog numbers, etc. Also note guy sheets and other specification data.



**ROHN No. 45 Tower** 

Exclusive Design and Manufactured only by

# ROHN

Manufacturing Co

Peoria, Illinois

# #45 TOWER

			SUGG* D.	
PART NO.		LIST	DEALER	WT.
45 <b>G</b>	10 tower section	61.45	42.00	70
45AG	9' top section	64.30	43.00 45.00	70 52
45AG-1	Top section. Mast support tube is 11 galv.	71.45	50.00	60
	pipe, threaded on top end and projecting		30,00	
	12" above apex of side rails.			
45AG-2	Top section. Mast support tube is 21 0.D.	71.45	50.00	60
	tubing, 36" total length, extending 18"			
45AG-3	above apex of side rails.	ma te		
45AG=3	Top section. Mast support tube is 2½" 0.D. tubing, extending 12" above apex of side	71.45	50.00	60
	rails. A 2" O.D. antenna stub will fit			
	snugly inside support tube.			
45AG-4	7' top section. Upper end terminates in 11"	71.45	50.00	52
	dia. flat, circular plate with 2½" dia.			
1510 5	hole in center.			
45AG-5	Top section. Mast support tube is 2-3/4"	71.45	50.00	60
	0.D. and 2-9/16" I.D. tubing, 18" total length.			
45TG	10' tapered base section	85.00	60.00	90
45RG	10' insulator section for 45G tower	171.45	120.00	104
	(includes 3 #10470 insulators)		220,000	104
5545G	20' adapter section for joining 45G & 55G	178.60	125.00	160
HCG-45G	H-frame section with hardware	85.00	60.00	80
LSC-45G	H-frame ladder section with hardware	42.85	30.00	35
APL45G SB45G	Beacon plate	25.00	17.50	20
BPC45G	5' short base section for concrete Concrete base plate	35.70 32.85	25.00 23.00	35
3/4"x12" PP	Pier pin	2.50	1.75	1
	(for BPC45G or 45TG - 1 required)		2013	•
FR45G	Flat roof mount	35.35	24.75	40
RP45G	Rotor post	3.55	2.50	3
AS45G	Accessory shelf. Plate for mounting Ham "M" rotor or mast bearing. Mounts inside of tower.	15.75	11.00	9
GA45G	Guy assembly (bracket w/torque bars)	28.60	20.00	23
GB45G	Guy bracket only	20.00	14.00	16
HB45AG	Adjustable house bracket (up to 15")	9.60	6.70	- 10
HB45BG	Adjustable house bracket (15" to 24")	12.70	8.90	13
HB45CG TB50	Adjustable house bracket (24" to 36") Tower bushing - 1½" I.D. x 2" O.D.	13.80 1.60	9.65	· 19
TB75	Tower bushing - $1\frac{1}{2}$ " I.D. x 2" O.D.	1.60	1.10	1 1 2
S-1	Rubber grommet (1 pc.)	2400	Discontinued	72
L-2	Rubber grommet (2 pcs.)		Discontinued	
AB	Amateur bearing - 2"x4"x10" hardware for use	5.65	3.95	1
ma 6	with 45AG-4 top			
TB-2	Thrust bearing, ball bearing, self-aligning, for 2" 0.D. tubing, bolts to 45AG-4 top	23.60	16.50	8
SAB45G-2	Side arm bracket for top antenna mounting	26.25	19 25	17
J	alongside beacon	20,23	18.35	17
SA45G-224	24" side arm with 36", 2½" O.D. support tube	41.00	28.75	. 22
SA45G-524	24" side arm with 18", 2-9/16" I.D. support	41.00	28.75	18
	tube			
TA45	Torque arm stabilizer assembly	65.70	46.00	58
45TDM-2 45TDM-25	Top dish mount w/2" 0.D. mast Top dish mount w/2\frac{1}{2}" 0.D. mast	52.85	37.00	47
45TDM-2SP	Top dish mount w/2" standard pipe	62.85 64.30	44.00 45.00	56
45TDM-2EH	Top dish mount w/2" EH pipe	74.30	52.00	57 66
45TDM-25SP	Top dish mount w/2½" standard pipe	80.00	56.00	71
45TDM-25EH	Top dish mount w/2½" EH pipe	92.85	65.00	82
DM45G-2	Face dish mount w/2" (2-3/8" OD) 5' long	60.00	42.00	52
The A.E. A.	standard pipe			
DM-45-4	Face dish mount w/4" (4½" OD) 5' long	100.00	.70.00	88
EF-25-45	standard pipe Aluminum erection fixture, 12 ft. long (fits	101 10	70.75	10
LAL BOJ TJ	all models with 1½" side rails)	101.10	70.75	18
P-25-45	Pole only for EF-25-45	56.15	39.30	10
H-25-45	Head only for EF-25-45	56,15	39.30	. 8

#45G
Reference Sheet for Complete Guyed #45G Tower

## DEALER PRICES

TOWER HEIGHT	30 1bs./sq.ft. WIND LOAD	40 1bs./sq.ft. WIND LOAD	50 1bs./sq.ft. WIND LOAD
50 <b>¹</b>	371.00	398.00	398.00
601	418.00	450.00	450.00
701	463.00	494.00	558.00
801	544.00	609.00	609.00
90"	609.00	657.00	657.00
100'	663.00	717.00	<b>7</b> 89.00
110'	708.00	845.00	845.00
120	813.00	897.00	897.00
130'	868.00	947.00	1031.00
140	885.00	1003.00	1085.00
150 <b>'</b>	970.00	1146.00	1146.00
160'	1143.00	1232.00	1296.00
170 <b>'</b>	1168.00	1285.00	1353.00
180'	1218.00	1404.00	1494.00
190'	1276.00	1466.00	1559.00
2001	1324.00	1523.00	1709.00
2101	1432.00	1574.00	
2201	1486.00	1729.00	
230'	1688.00	<b>17</b> 86.00	
240¹	<b>1717</b> .00	1955.00	
250¹	1695.00		
260¹	1746.00		
270'	2004.00		
2801	2055.00		
290*	1992.00		
3001	2048.00		

Above prices include all items listed on parts sheets.

"Ground" or "roof" towers same price. When ordering, specify "roof" or "ground". See guy chart and parts list for details.

Prices for above towers are subject to change based upon current individual item prices. Prices subject to change without notice.

Anchor grounding (AGK) and base grounding (BGK) of all towers are recommended by E.I.A. and Rohn Manufacturing Co. However, grounding is not included in tower prices. See appropriate price list for grounding prices.

Above prices apply to shipments East of the Rocky Mountains. For shipments West of the Rockies, add \$6.00 per 10 ft. of tower height.

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SHEET D-81070 (Replaces D-78470)

## REFERENCE PRICES & INSTALLATION INFORMATION #45 Bracketed Towers, NON-GUYED

BASE: The size of the concrete base for a 50' #45 tower, with a house bracket 12' above-ground, is 3' deep by 2' square. For cases of loose soil, etc., the base must be larger. Spread about 2" of gravel in bottom of hole prior to setting base section. After setting base section on gravel, being sure correct end is up, fill another 3" with gravel around legs of base. This allows the tower base legs to extend the required amount below the base of the concrete, thus allowing for drainage of moisture into the gravel. Level the base section as much as possible prior to pouring concrete and repeat the process to make the tower plumb, after pouring concrete. Do not pull base up into the concrete to level it and do not drive it hard into ground, as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation.

HEIGHT OF TOWER & BRACKET USES: House brackets must be used and must be mounted at least 12' aboveground to be effective. The #45 tower should not extend more than 45' above a house bracket. To secure the house bracket, use lag screws no smaller than 3/8" x 2". A special effort should be made to locate the house bracket such that the lag screws go through the siding into a stud. Brackets fastened to the siding only will not hold in a high wind. Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.

BOLTS: Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6 1/2" length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

MISCELLANEOUS: Installation is greatly hastened and simplified by the use of an erection fixture.

All information is based upon antennas with not more than 2 square feet of area, in 20 PSF (70 MPH) wind load and a safety factor, with antenna installed at tower apex.

See Chart B-691119 for more information on non-guyed towers.

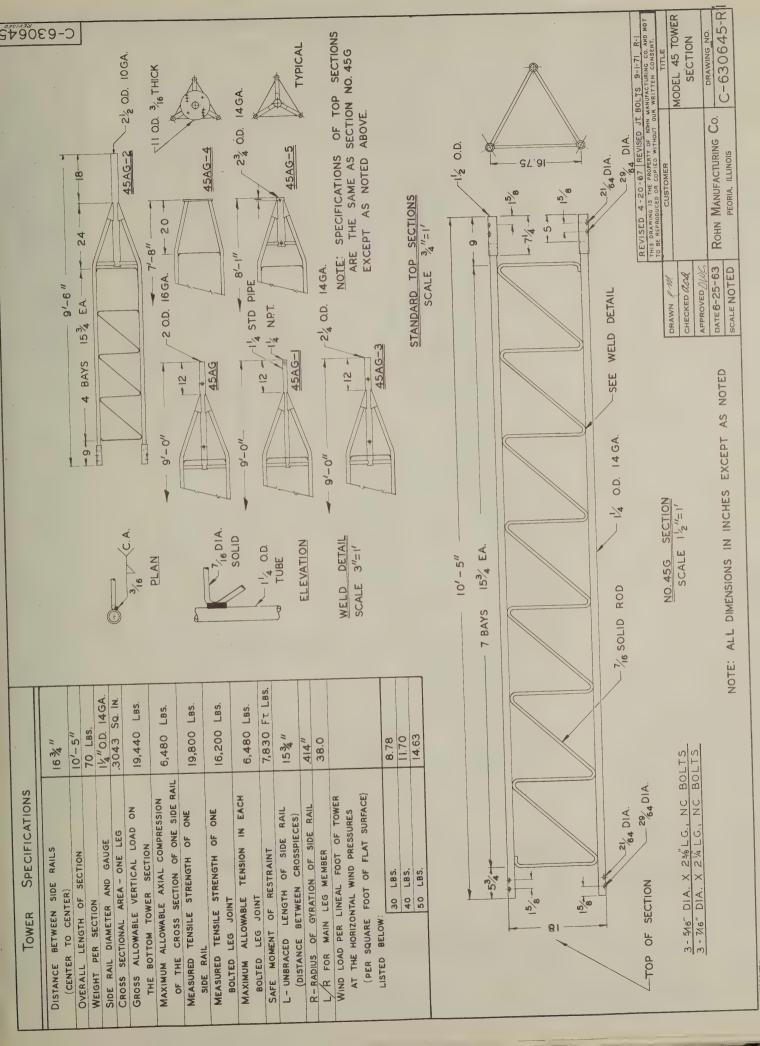
DEALER REFERENCE	E PRICES	FOR	COMPLETE	BRACKETED	TOWERS
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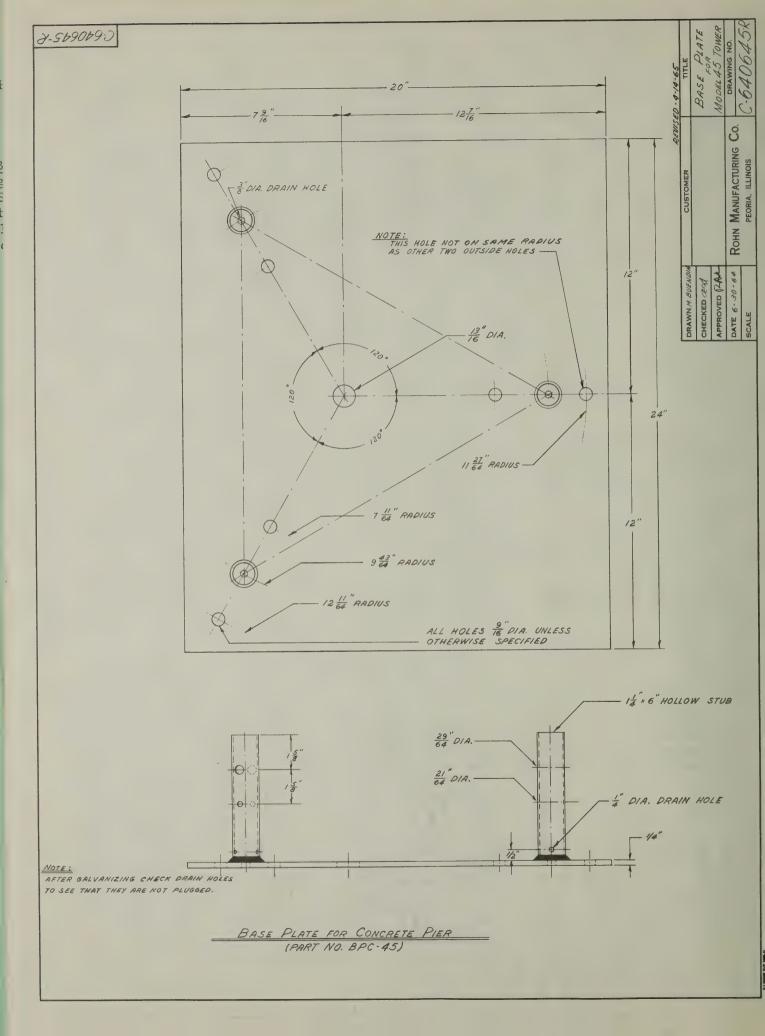
	30'	401	50 <b>¹</b>	60 <b>'</b>	70'	801	90'	100'
#45G	145.00	188.00	231.00	274.00	317.00	360.00	403.00	446.00

Includes top section (A-2), 15" to 24" adjustable house bracket, and required number of standard sections. Prices for above towers are subject to change without notice based upon current individual item prices.

Above prices apply to shipments East of the Rocky Mountain states. For shipments West of the Rocky Mountain states, add \$7.00 per 10 ft. of tower height.

### F.O.B. PEORIA, ILLINOIS





PRICE	SHEET	D-80070	
(R	eplaces	D-77470)	

## SELF-SUPPORTING TOWER SSV SERIES

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			2	_	-		и

(repraces	D 11-11	<b>U</b> )		DD A DT	T/ TTID			
PART NO.						LIST	SUGG'D.  DEALER	EST.
SSV-30	30¹	SSV tower	complete	w/1-TT	& SB-2	265.00	185.00	288
SSV-40	401	SSV tower	complete	w/1-TT	& SB-2	300.00	208.00	339
SSV-50	. 501	SSV tower	complete	w/1-TT	& SB-3N	470.00	328.00	538
SSV-60	60 <b>'</b>	SSV tower	complete	w/1-TT	& SB-3N	500.00	351.00	589
SSV-70	701	SSV tower	complete	w/1-TT	& SB-4N	900.00	628.00	988
SSV-80	801	SSV tower	complete	W/1-TT	& SB-4N	930.00	651.00	1039
SSV-90	901	SSV tower	complete	w/1-TT	& SB-5	1435.00	1004.00	<b>1</b> 553
SSV-100	100	SSV tower	complete	w/1-TT	& SB-5	1470.00	1027.00	1604
SSV-110	110'	SSV tower	complete	w/1-TT	& 5/8" AB	1860.00	1303.00	1964
SSV-120	120'	SSV tower	complete	w/1-TT	& 5/8" AB	1895.00	1326.00	2015
SSV-130	130'	SSV tower	complete	w/1-TT	& 5/8" AB	2360.00	1653.00	2509
SS <b>7-1</b> 40	1401	SSV tower	complete	w/1-TT	& 5/8" AB	2395.00	1676.00	2560
SSV-150	1501	SSV tower	complete	w/1-TT	& 5/8" AB	2990.00	2093.00	3209
SSV-160	1601	SSV tower	complete	w/1-TT	& 5/8" AB	3025.00	2116.00	3260
SSV-170	1701	SSV tower	complete	w/1-TT	& 5/8" AB	3635.00	2543.00	3929
SSV-180	1801	SSV tower	complete	w/1-TT	& 5/8" AB	3665.00	2566.00	3980
SSV-190	1901	SSV tower	complete	w/1-TT	& 3/4" AB	4410.00	3085.00	4783
SSV-200	2001	SSV tower	complete	w/1-TT	& 3/4" AB	4440.00	3107.00	4834

All towers galvanized after fabrication and designed for 30 PSF wind load. See NOTE: applicable drawing for allowable antenna load. All SSV sections shipped with leveling shims.

## SSV TOWER SECTION, TOP & BASE PRICES

		- Anna Contract - Anna Contract		
1W	18' welded section, straight	95.00	66.00	116
1W-B	10' welded section, straight	62.00	43.00	65
1W-B-APL	10' welded section, straight, w/support	79.00	55.00	85
	tube & beacon plate			
2W	20' welded section	132.00	92.00	160
2W-B	10' welded section, straight	85.00	59.00	90
2W-APL	20' welded section w/support tube &	167.00	117.00	180
	beacon plate			
2W-B-APL	10' welded section, straight, w/support	103.00	72.00	110
	tube & beacon plate			
2W-ST	20' welded section, straight	167.00	117.00	180
3WN	20' welded section	187.00	131.00	230
3WN-B	10' welded section, straight	116.00	81.00	125
3WN-ST	20' welded section, straight	233.00	163.00	250
4N	20' knock-down section	415.00	290.00	435
4N-B	10' knock-down section, straight	245.00	170.00	250
4N-ST	20' knock-down section, straight	460.00	320.00	480
5N	20' knock-down section	515.00	360.00	540
5N-B	10' knock-down section, straight	285.00	200.00	300
5N-ST	20' knock-down section, straight	565.00	395.00	590
1-TT	Tapered top for 1W or 1W-B	29.00	20.00	18
2-TT	Tapered top for 2W	29.00	20.00	18
3-TT	Tapered top for 2W-B, 2W-ST or 3WN	33.00	23.00	20
4-TTN	Tapered top for 3WN-B, 3WN-ST or 4N	36.00	25.00	21
5-TTN	Tapered top for 4N-B, 4N-ST or 5N	36.00	25.00	23
6- <b>TT</b>	Tapered top for 5N-B, 5N-ST or 6N	40.00	28.00	25
SB-2	4' short base section	43.00	30.00	45
SB-3N	4' short base section	60.00	42.00	65
SB-4N	4' short base section	75.00	52.00	80
SB-5	4' short base section	97.00	68.00	105

F.O.B. PEORIA, ILLINOIS

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## SELF-SUPPORTING TOWER SSV SERIES

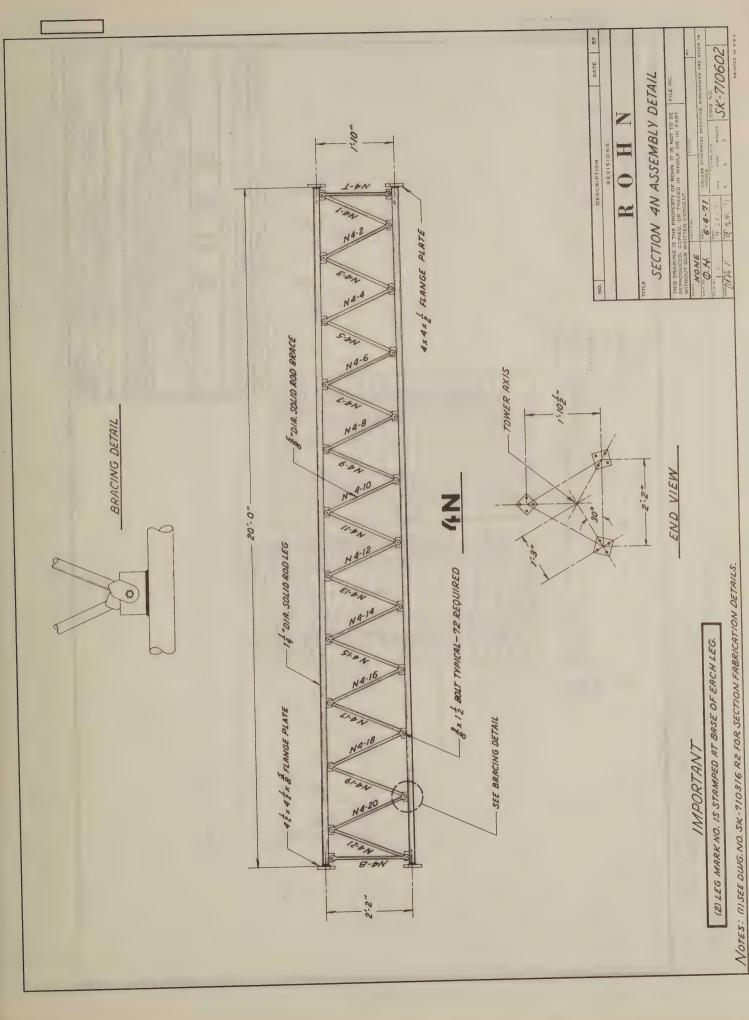
PART NO.		LIST	SUGG'D. DEALER	WT.
	ANCHOR BOLTS FOR SSV SER	IES		
	(12 required per tower	)		
3/8"x18" AB 1/2"x24" AB 5/8"x30" AB	For sections #1, 2 For section #3 For sections #4, 5	5.00 5.70 6.80	3.50 4.00 4.75	3/4 1½ 3
	ACCESSORIES FOR SSV SECTION	ons end		
Beacon Plates				
APL-3W	Beacon plate for 3WN	21.50	15.00	15
APL-4N APL-5N	Beacon plate for 4N Beacon plate for 5N	21.50 21.50	15.00 15.00	15 15
Side Arm Brac	ket			
SAB-2-5	Side arm bracket for top antenna mounting alongside beacon for 2W thru 5N	21.50	15.00	13
Type 1W Side	Arm Booms for SSV Sections **			
SSV-25-6B	6' boom for Sect. 2 thru 5	86.00	60.00	61
SSV-25-9B	9' boom for Sect. 2 thru 5	114.00	80.00	81

<sup>\*\*</sup> Boom lengths mentioned above are the total length of the boom. Each boom includes an Antenna Mast Kit w/2" (2-3/8" OD) 3' long standard pipe and hardware, plus kit w/hardware for mounting boom to required section. NOTE: Total required boom length is determined by section number, section width at mounting elevation, and amount of the boom needed as side arm to extend beyond face of tower on one side. (See appropriate drawing for face widths of tower sections and Dwg. C-710348 for boom installation information.)

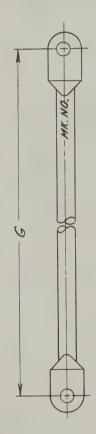
### Erection Fixtures

EF-SSV	Erection fixture, 16' long (for use with sections 2 thru 10 only)	322.00	225.00	90
EF-SSV-RH	Erection fixture (same as above) with rotating head	429.00	300.00	100

### F.O.B. PEORIA, ILLINOIS







																							P. 400FO MK NOS NA-TEN4-B	More will be a second
N SN	.0.	243/4"	25/4"	25 716	2558"	253/4"	25 15/6	2618"	2614"	26 716	26 5/8"	26 3/4"	26 15/16	27/18"	27 5/16"	27 716"	27 5/8"	27/3/16	28"	2818"	28 5/16"	281/2"	Q	
SECTION SN	MK. NO.	N5-1	N5-2	N5-3	N5-4	N5-5	N5-6	N5-7	N5-8	N5-9	N5-10	N5-11	N5-12	N5-13	N5-14	N5-15	N5-16	N5-17	N5-18	N5-19	N5-20	N5-21		
SECTION AN	., 9, .	213/8"	21/3/16"	22 //6"	22//6"	223/8"	22 9/6	. 22 3/4"	22 7/8"	23 116"	23 3/16"	233/8"	23 9/6"	23 1/16	. 23 7/8"	24/16	243/16	243/8	24 9/16	24 1/16	24 7/8"	25 1/6"	18 3/16	231/1"
SECTI	MK. NO.	1-51	N4-2	N4-3	N4-4	N4-5	N4-6	N4-7	N4-8	N4-9	N4-10	N4-11	N4-12	N4-13	N4-14	N4-15	N4-16	N4-17	N4-18	61-4N	N4-20	N4-21	N4-7	0 7/1

## R O H N

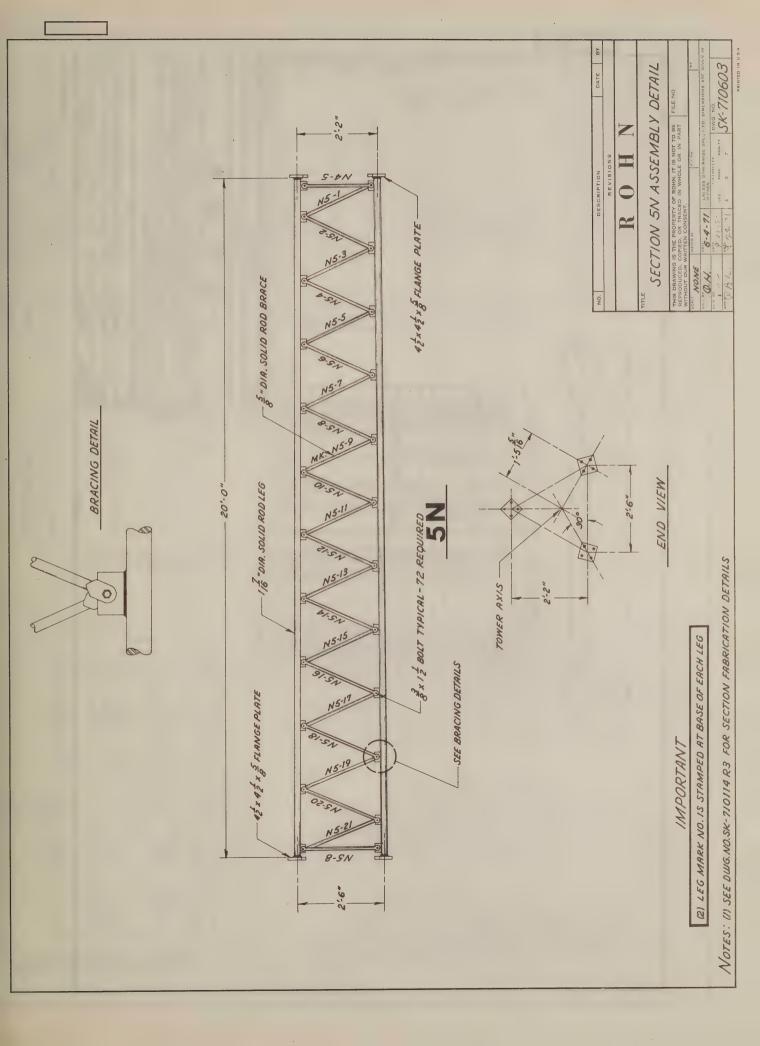
DESCRIPTION

o N

7/29/7/ GLS DATE BY

# \* BRACING DETAIL - GAGE LENGTH

THIS DRAWING IS THE PROPERTY REPRODUCED, COPIED, OR TRACE WITHOUT OUR WRITTEN CONSENT.	THE PROPERTY PIED, OR TRAC	THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.	D BE FILE NO.	
SCALE	MATERIAL	MSINIL		WT.
DWN. BY	DATE 123/71	DATE 79/71 UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	CIFIED, DIMENSIONS A	IRE GIVEN IN
	C/24/71	TOLERANCES DEC. FRAC. ANGLES	DWG. NO.	0 500
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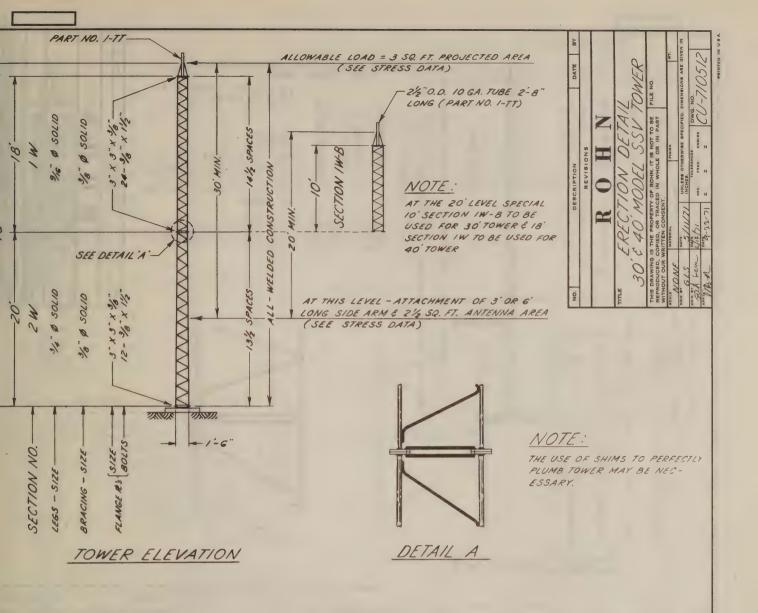
		. 84	;	: '6		*	.9.		2	:9	:0	: 84	.9/	:	0		. 6	.9/		11			7
NS N	, g,	243/4	25/4	25%	2558	253/4	25/3/	2618	2614	2671	26 3/	26 34	26 13	27/16	27 3/	2771	275/	27/3	28	28/8	285/	281/2	
SECTION SN	MK. NO.	N5-1	N5-2	N5-3	N5-4	N5-5	N5-6	N5-7	N5-8	N5-9	N5-10	N5-11	N5-12	N5-13	N5-14	N5-15	N5-16	N5-17	N5-18	N5-19	N5-20	N5-21	
SECTION AN	. 9,	213/8"	21/5/16"	22116"	22/6"	223/8"	22 9/16	223/4"	. 22 7/8"	23 1/16"	. 23 3/16"	2336"	23 9/6"	23 1/16	. 23 7/8"	24/16	243/16	243/8"	24 9/16	24 1/16	24 7/8"	25 1/6"	18 9/16
SECTI	MK. NO.	1-BN	N4-2	N4-3	N4-4	N4-5	N4-6	N4-7	N4-8	N4-9	N4-10	N4-11	N4-12	N4-13	N4-14	N4-15	91-pN	N4-17	N4-18	N4-19	NA-20	N4-21	N4-7

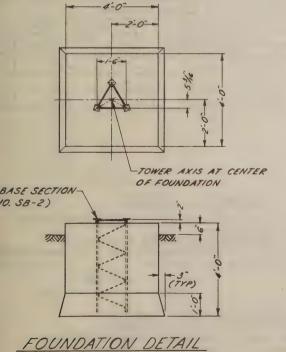
R. ADDED MK. NOS. NA-7 & NA-8 7/29/7/ NO. DESCRIPTION DATE REVISIONS

## ROHNNO DETAIL - GAGE LE

SECTIONS 4N  $\varepsilon$ 5N HIS DRAWING IS THE PROPERTY OF ROHN, IT IS NOT TO BE FILE COPIED, OR TRACED IN WHOLE OR IN PART

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN INCHES.	DWG. NO.	6-110603
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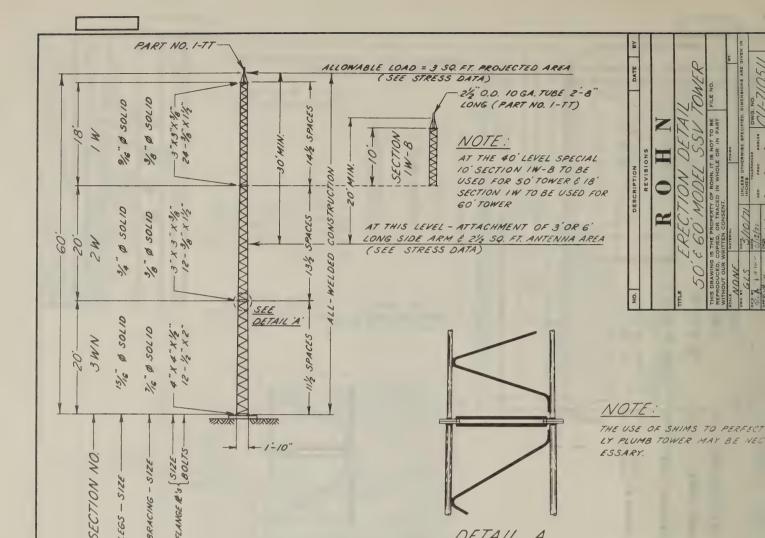
57.	RESS	DATA -	- 30 PSF WI	IND - E.	I.A. STAND	ARDS
WIND ON TOWER INCLUDING 3 SO FT. PROJECTED AREA AT TOP AND ONE SIDE ARM WITH 21/2 SQ. FT. ANTENNA AS SHOWN						
SECTION NO.	WIND ON SEC. (LBS)	MAXIMUM LEG STRESS	LEG CAPACITY 50,000 PSI MIN. YIELD STRENGTH	MAXIMUM BRACE STRESS	BRACE CAPACITY 36,000 PSI MIN. YIELD STRENGTH	WEIGHT (LBS)
IW	205	2,940	3,600	170	700	116
2 W	290	7,600	7,600	270	700	160

## GENERAL NOTES

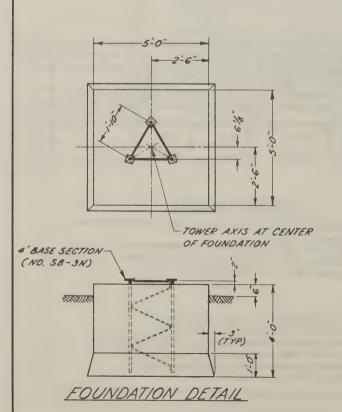
- 1. SECTION NO. IS METAL STAMPED AT THE BOTTOM OF ONE LEG OF EACH SECTION.
  2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
- 3. ALL MATERIAL HOT DIPPED GALVANIZED AFTER FABRICATION.
- 4. BOLTS TO BE ASTM A-325 QUALITY.

## FOUNDATION NOTES

- 1. CONCRETE 3,000 PSI MINIMUM ULTIMATE STRENGTH.
- 2. SHORT BASE TO BE LEVEL BEFORE CONCRETE HARDENS.
- 3. FOUNDATION DESIGN BASED ON 3,000 PSF SOIL.
- 4. CONCRETE REQ'D. = 2.5 CU. YOS.



## TOWER ELEVATION



STRESS DATA - 30 PSF WIND - E.I.A. STANDARDS							
WIND ON TOWER INCLUDING 3 SQ. FT. PROJECTED AREA AT TOP AND ONE SIDE ARM WITH 21/2 SQ. FT. ANTENNA AS SHOWN							
SECT NO	7/ON D.	WIND ON SEC. (LBS.)	MAXIMUM LEG STRESS	LEG CAPACITY 50,000 PSI MIN. YIELD STRENGTH	MAXIMUM BRACE STRESS	BRACE CAPACITY 36,000 PSI MIN. YIELD STRENGTH	WEIGHT (LBS)
11	V	205	2,940	3,600	170	700	:16
21	v	290	7,600	7,600	270	700	160'
31	WN	170	13,000	13,000	335	930	230

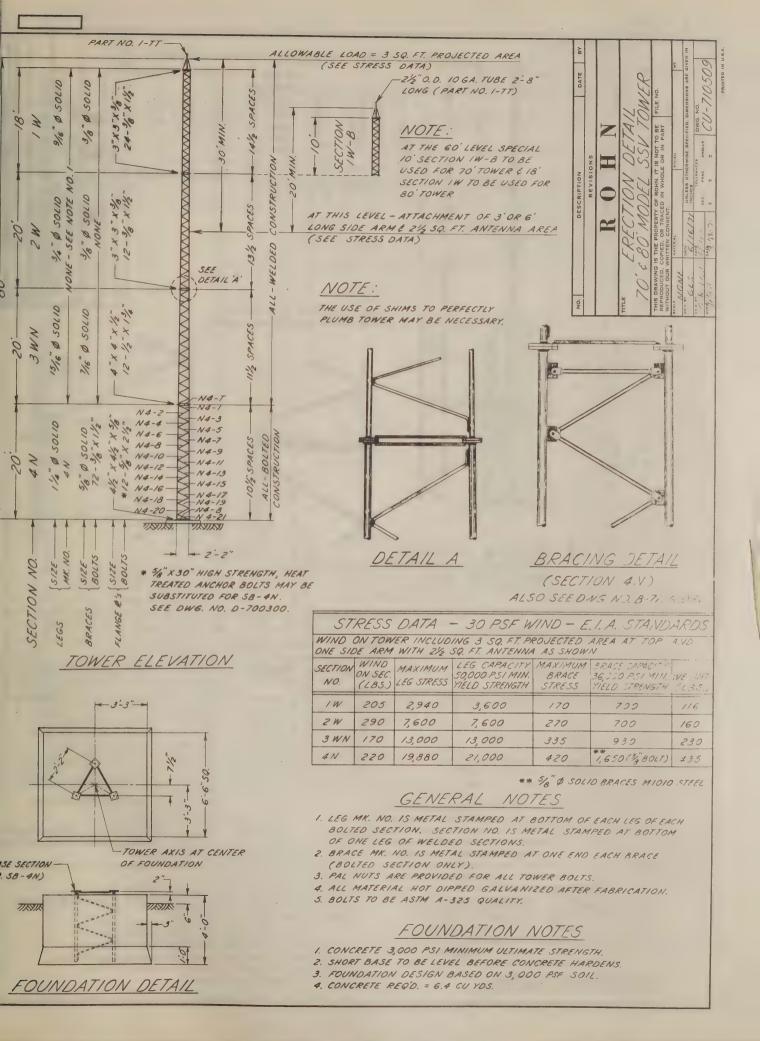
## GENERAL NOTES

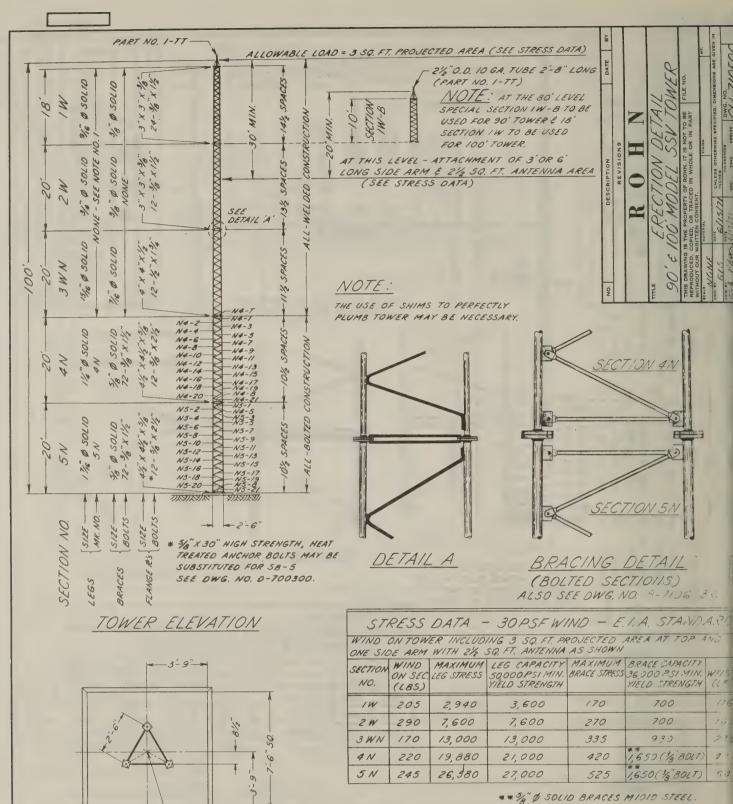
- 1. SECTION NO. IS METAL STAMPED AT THE BOTTOM OF ONE LEG OF EACH SECTION.
- 2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
- 3. ALL MATERIAL HOT DIPPED GALVANIZED AFTER FABRICATION.
- 4. ALL BOLTS TO BE A-325 QUALITY.

DETAIL A

## FOUNDATION NOTES

- 1. CONCRETE 3,000 PSI MINIMUM ULTIMATE STRENGTH.
- 2. SHORT BASE TO BE LEVEL BEFORE CONCRETE HARDENS.
- 3. FOUNDATION DESIGN BASED ON 3,000 PSF SOIL
- 4. CONCRETE REQ'D. = 3.8 CU. YOS.





TOWER AXIS AT CENTER

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OF FOUNDATION

YXYX

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FOUNDATION DETAIL

& RASE SECTION

7/27/2

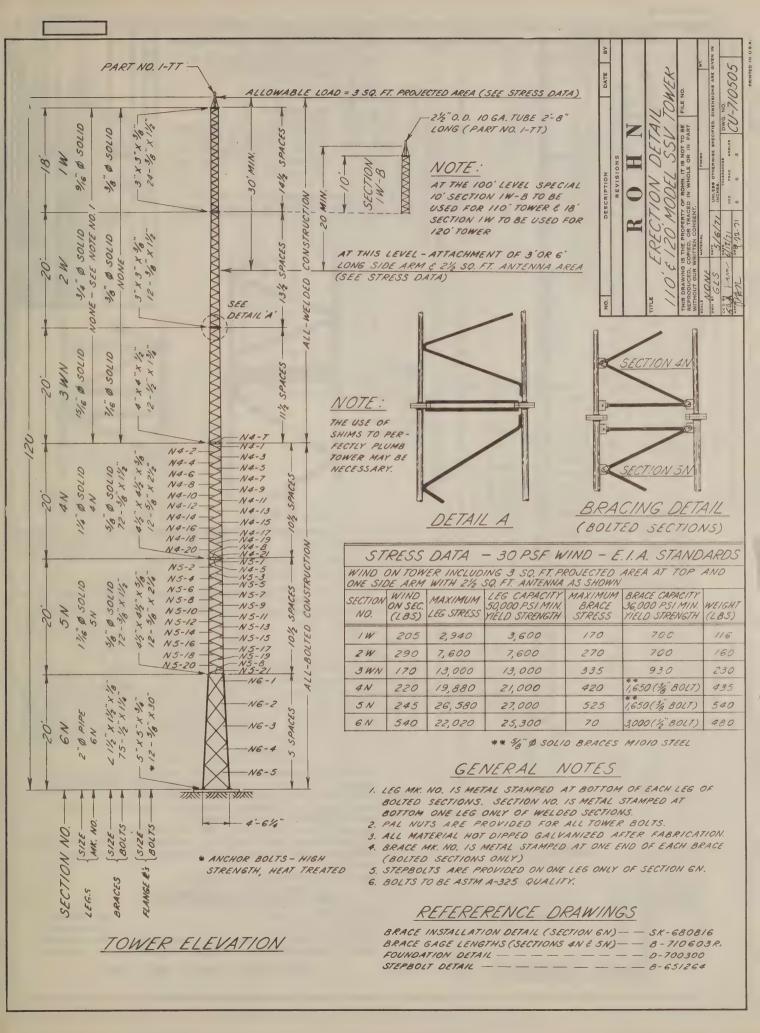
(NO. SB-5)

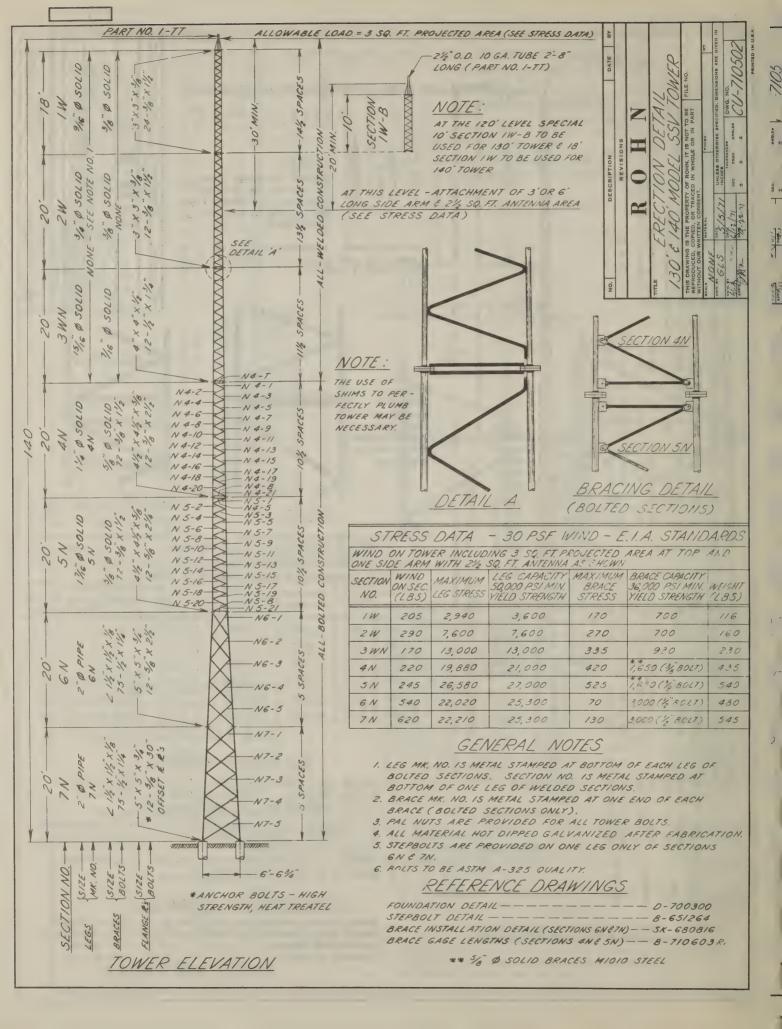
## \*\*\* \$\mathfrak{T}\_6" & SOLID BRACES MIDIO STEEL GENERAL NOTES

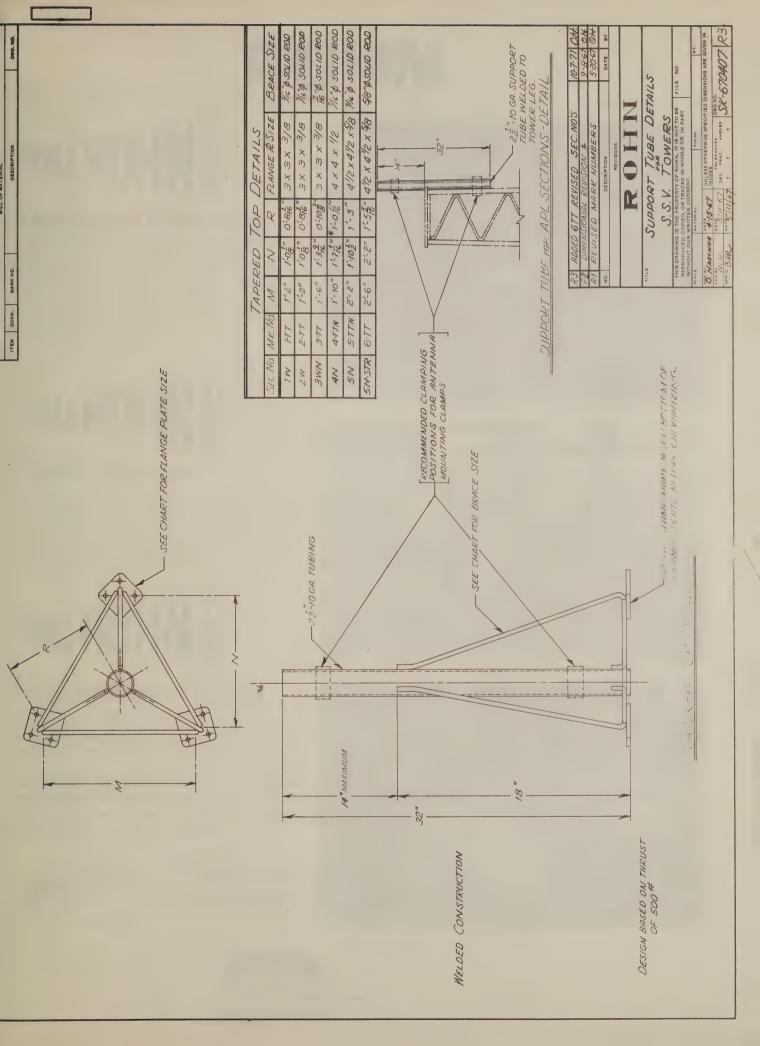
- 1. LEG MK. NO. IS METAL STAMPED AT BOTTOM OF EACH LEG OF EACH BOLTED SECTION. SECTION NO. IS METAL STAMPED AT BOTTOM OF ONE LEG OF WELDED SECTIONS.
- 2. BRACE MK. NO. IS METAL STAMPED AT ONE END EACH BRACE (BOLTED SECTIONS ONLY).
- 3. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
- 4. ALL MATERIAL HOT DIPPED GALVANIZED AFTER FABRICATION.
- 5. BOLTS TO BE ASTM A-325 QUALITY.

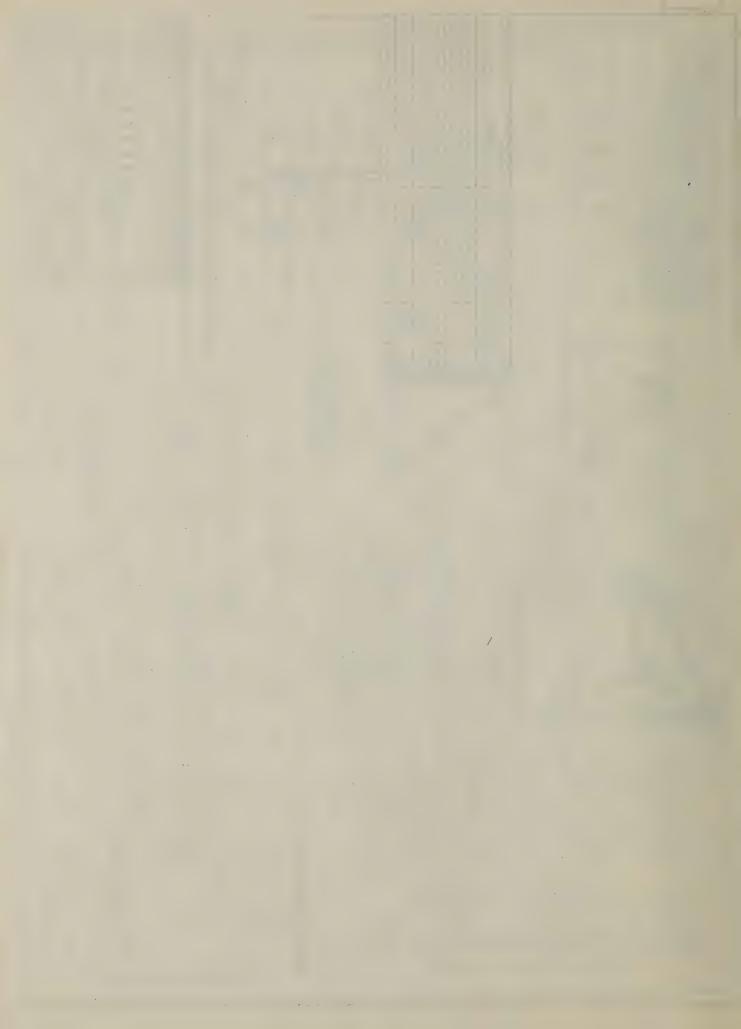
## FOUNDATION NOTES

- 1. CONCRETE 3,000 PSI MINIMUM ULTIMATE STRENGTH.
- 2. SHORT BASE TO BE LEVEL BEFORE CONCRETE HARDENS.
- 3. FOUNDATION DESIGN BASED ON 3,000 PSF SOIL
- 4. CONCRETE REQ'D. = 8.5 CU. YOS.









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## Hot Dipped Galvanizing

One of the finest, most modern galvanizing plants in the Midwest. Can handle practically every type, kind and size item. Pickling and oiling available; also centrifugal processing. Get quotes on your needs now!

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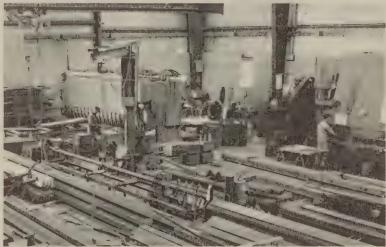
## Electric Welded Tubing

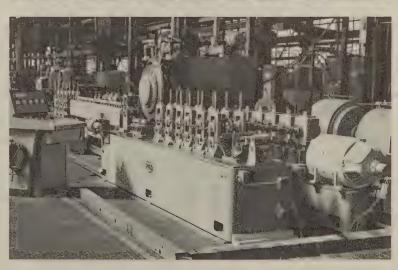
**ROHN** is a manufacturer of all sizes and types of black and galvanized electric welded steel tubing. Practically any need can be supplied whether large or small quantities. Immediate service, excellent shipping facilities, fleet of company owned trucks and very competitive prices. Check NOW and start saving money!



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## P. O. BOX 2000 PEORIA, ILLINOIS 61601 "Quarter Century of Service"

Hot dip galvanizing is a process for rust-proofing iron and steel by the application of a coating of metallic zinc. It is a versatile process in that it is applicable to products of nearly all shapes and sizes, ranging from nails, nuts and bolts to large structural assemblies. On all steel parts, galvanizing provides long-lasting and economical protection against a wide variety of corrosive elements in the air, in water, or in the soil.

### **Corrosion Resistance of Galvanized Steel**

The use of zinc is unique among corrosion-protective methods. The zinc coat serves in a twofold capacity.

First—It protects the steel from corrosive attack in most atmospheres, acting as a continuous and lasting shield between the steel and the atmosphere so long as the zinc sheath is unbroken.

Second—As a galvanic protector sacrificing itself slowly in the presence of corrosive elements by continuing to protect the steel even when moderate-sized areas of bare metal have been exposed. This last ability results from the fact that zinc is more electro-chemically active than steel.

Of all industrial coating materials, zinc alone possesses this dual ability. With most protective coatings that act only as a barrier, rapid attack commences when exposure of the base metal occurs.



This is what happens at a small exposed area in a coating of tin on steel. Tin merely serves as a barrier until the coating is penetrated. Then, because of electrochemical activities, the steel protects the tin.



This is what happens at a small exposed area in a coating of zinc on steel. The zinc has a greater tendency to go into solution at the hands of the elements than the base metal steel. The zinc is consumed while the steel is protected from any

The distance over which this galvanic protection is effective depends upon the environment. When completely and continuously wet, especially as by a strong electrolyte—e.g., sea water—relatively large areas of exposed steel will be protected so long as any zinc remains. In air, where the electrolyte is only superficially or discontinuously present, such as from dew or rain, the areas of bare steel protected are smaller. Nevertheless, instances are known of galvanized parts exposed out-of-doors which, although severely damaged by misuse, have remained rust-free for many years due entirely to the sacrificial action of the zinc.

Experience has shown that the corrosion resistance of galvanized coatings in the field cannot be predicted from accelerated laboratory tests. According to K. S. Frazier in his portion of the Monograph on Zinc, "Field inspection has shown that the popular service chart (above) is conservative for general usage and numerous individual cases have shown a protection substantially exceeding the periods shown."

A controlling factor in the life of galvanized steel is the sulfur content of the atmosphere. In polluted areas, such as "severe industrial," the normally protective zinc corrosion products tend to be converted to soluble sulfates which are washed away by rain, exposing the zinc to further attack and accelerating the weathering of the zinc.

It should be explained at this point that the amount of zinc on the surface of a galvanized article is measured in ounces per square foot of surface. That is to say, an article bearing a 2-ounce zinc coat has an average of 2 ounces of zinc on each square foot of surface of the galvanized article. This 2-ounce coat is equivalent to a thickness of .0034 inch or 3.4 mils (1 ounce per square foot is .0017 inch or 1.7 mils thick). Note: In the case of galvanized steel sheets the weight of zinc is specified in terms of total zinc on both sides of the sheet; i.e., a 2-ounce sheet has 1 ounce of zinc per square foot of surface.

### The Galvanizing Process

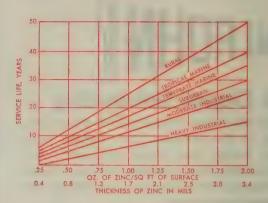
The hot-dip galvanized coating is applied by immersing a thoroughly cleaned product in a bath of molten zinc. The zinc used for the coating shall conform to the Standard Specifications for Slab Zinc (Spelter) (ASTM Designation B6) and shall be at least equal to the grade designated as "Prime Western."

As with all metal coating operations, thorough cleaning of the basis metal is essential. Proper preparation of steel surfaces for galvanizing involves three stages—degreasing, scale or rust removal, and fluxing. While practices vary from plant to plant—depending on both need and facilities—the steel must be clean.

If necessary, grease or paint is removed in a hot alkaline or other degreasing bath. After rinsing, the steel is descaled by pickling. Pickling is usually done in a dilute hot sulfuric acid solution (5 to 10 per cent sulfuric acid) to which an inhibitor is frequently added.

Shot or grit blasting may be employed in situations where mill

"Zinc—The Science and Technology of the Metal, Its Alloys and Compounds" edited by C. H. Mathewson, ACS Monograph #142, Reinhold Publishing Corporation, New York, 1959.



scale is deeply imbedded in the surface of the steel or where, as in casting, the surface has inclusions of sand particles which are resistant to the normal pickling acids.

After pickling, the material must be rinsed thoroughly to rid the surface of residual acid and iron salts. The work is then dipped in an aqueous preflux solution consisting usually of zinc ammonium chloride. This preflux has two functions. First, it coats the work with a thin layer of salt which protects the steel from the air until it is galavanized. Second, it supplements the action of the molten flux blanket which if used, is floating on the zinc bath, by removing any residual oxide and facilitates the wetting of the steel by the molten zinc.

The galvanizing bath is usually controlled at temperatures in the range 830° to 860° F, depending on the type of work being treated.

The fresher and more fluid the flux, the greater is its basic effectiveness and the more readily is it dispelled from the surface of the steel. Because of local chilling action when it enters the bath, the steel invariably carries with it some of the salt, and time must be allowed for the steel to reach the temperature of the bath and for the flux to separate and rise to the surface. During immersion of the article in the zinc bath, a visible bubbling action takes place, resulting from the interaction of the steel, flux, and the molten zinc. The work is usually withdrawn when bubbling subsides and after a preliminary inspection has shown that a continuous coating of zinc has formed.

After galvanizing, the work may be quenched in water or cooled in air. Small parts, such as nuts, bolts, and washers, which are galvanized in baskets in a batch, are usually centrifuged to remove excess zinc before it freezes.

### Structure of the Coating

The usual hot dip galvanized coating has a duplex structure consisting of a layer of iron-zinc alloy phases next to the steel with an outer layer of zinc having the same composition as the galvanizing bath.

It is important to note that the protection afforded depends on the total thickness of the coating and that it is relatively unaffected by the proportions of the alloy and the zinc layers.

The total thickness of the coating as well as the relative amounts of the individual layers which form in the usual hot dip galvanizing process will depend on a number of factors which can be placed in two main categories: composition of the basis steel and galvanizing techniques.

It is generally accepted that the elements silicon, carbon, and phosphorus tend to increase the thickness of the iron-zinc alloy phases. Surface roughness of the steel may also promote alloy layer formation because of the increased surface area exposed to the zinc.

The second main category of variables are those which the galvanizer can control, primarily bath temperature, immersion time, and withdrawal rate. The formation of the iron-zinc alloy is a diffusion process, therefore, higher bath temperatures and longer immersion times will produce heavier alloy layers. Like all diffusion processes, the reaction proceeds rapidly at first and slows down as the layers become thicker.

The thickness of the outer zinc layer is largely independent of immersion time. It depends on the rate of withdrawal and the extent of drain-off. A fast rate of withdrawal of the article from the zinc bath "carries out" more zinc which results in a heavier coating, although the distribution of the zinc layer may become increasingly meyer.

Mar. 1, 1972

## DEALER CATALOG WEST COAST PRICE SHEET

PART NO. LIST DEALER	
Tower Sections	
20G 33.15 23.20	30
20AG 35.50 24.85	26
25G 42.30 29.60	40
25AG 44.65 31.25	31
ST25AG 31.80 22.25	18
25AG-1 48.10 33.65	31
25AG-2 48.10 33.65	31
25AG-3 48.10 33.65	31
25AG-4 48.10 33.65	31
25AG-5 48.10 33.65	31
25TG 66.10 46.25	60
25RG 160.95 112.65	74
Fold-Over Towers	
FK25G 439.30 307.50	355
FK25FG 453.60 317.50	369
FK25G-SBH-1 57.15 40.00	48
FK25G-SBH-2 63.60 44.50	49
FK25G-SAH 42.30 29.60	40
FK25-Hinge 86.45 60.50	56
FK45G 621.45 435.00	518
FK45FG 657.15 460.00	558
FK45G-SBH-1 86.30 60.40	78
FK45G-SBH-2 94.85 66.40	80
FK45G-SAH 71.45 50.00	70
FK45-Hinge 127.85 89.50	100
Service Tables	
TVST-500 24.00	28
TVST-600 38.70 27.10	30

NOTE: Above prices apply to shipments to the following states: Ariz., Calif., Colo., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo., Alaska, Hawaii, and Alberta, B.C., and Sask., Canada.

F.O.B. RENO, NEVADA - or - PEORIA, ILLINOIS

## WAREHOUSE & BRANCH PRICING ON F.O.B. PEORIA ITEMS

All items which are priced F.O.B. Peoria, Illinois and are shipped from a warehouse or shipping point, other than Peoria, will be increased 10% for incoming freight, plus any applicable warehouse fee, and will be F.O.B. shipping point.

This includes the #45, #55, and JJ towers and their accessories, and all other F.O.B. Peoria items.

## ROHN QUESTIONNAIRE FOR SPECIAL TOWERS

Date	

SUBMITTED BY	Address			
CUSTOMER	Address			
LOCATION OF SITE: City	State			
TERRAIN: // Flat // Hilly // Top (En	of Bldg. // Other	1.		
SOIL CONDITION: / Standard / Rock	// Swamp // Other			
SPACE AVAILABLE: Lengthft. (80% guy radius assume	itions assumed unless otherway Width ft. Az			
(80% guy radius assume HEIGHT & TYPE OF TOWER:ft.				
ANTENNA: Manufacturer & Model No.				
Frequency Wind Load on Antenna (Note: If more than one anten plus requirements for side ar	lbs. at	e information for each,		
TRANSMISSION LINE: Manufacturer & Model Size (DIAMETER)	Noin. Pressurized	: // Yes // No		
TCWER USE: // AM Radiator // Mobile Radio // Micros // FM or TV Receiving //	wave / FM or TV Antenna Other	Support Transmitting		
WINDLOAD REQUIREMENTS (For Towers Under 1 EIA Zone A (86.6 MPH true wind video 2 EIA Zone B (100 MPH true wind video 2 EIA Zone C (111.8 MPH true wind 1 Other 1 lbs./sq.ft. or	velocity) Ice (if any elocity) velocity)	y)in.		
ADDITIONAL INFO	ORMATION FOR MICROWAVE			
TCWER LOADING:				
Reflectors: Size	Location	Azimuth		
Size Parabolas: Size	Location Location	Azimuth Azimuth		
Other Antennas: Size	Location	Azimuth		
Coaxial Cable: No.	Size Typ			
Waveguide: No.	Size Typ	pe		
RIGIDITY: // Per EIA // Other -	Twist Defl	Lection		
(Signed)				

SPECIAL INFORMATION: Give any additional, special information that you have, such as: Future loadings - type of climbing facility - safety device - any special obstruction markings - type of lights required (in conduit, with or without alarm) - special grounding. Also, show a rough sketch of guying area with all dimensions and position of all structures.

4/1/67

## ROHN towers Hot Dipped Galvanized Finished

means Extra Value for you

CORROSION RESISTANT: Hot-dipped zinc galvanizing means that ROHN Products are absolutely corrosion-resistant. A minimum molten zinc coating of 2 ounces for every square foot of surface fuses permanently to the metal, becoming an actual part of the steel so it cannot be separated. Also the tubular steel used in ROHN Towers is coated both inside and outside to give absolute protection against deterioration from condensation and moisture.

CHIP AND SCRATCH PROOF: If a galvanized surface is scratched or chipped, the sur-

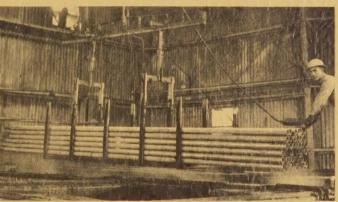
rounding zinc actually "heals the wound" and continues to seal out all corrosive elements! Nothing but hot-dipped galvanizing does this.

PERMANENT DURABILITY: Galvanizing means permanent protection and attractive appearance that cannot be matched by any other type of coating. With ROHN Products, you receive the very finest available—anywhere. All Hot-Dipped Galvanizing is done in the ROHN Galvanizing Plant according to ROHN Rigid Controls for Highest Quality.

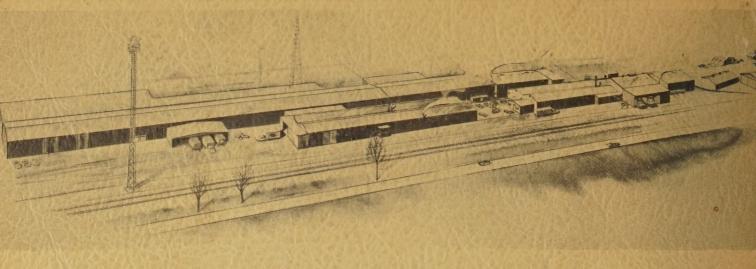
Shown here are the huge pickling vats at ROHN where towers and other ROHN Products are prepared for galvanizing. Modern, high capacity equipment, skilled, experienced operators and finest raw materials keep ROHN quality high.



ROHN tower sections after fabrication are completely immersed in the molten zinc where all welds, points of construction, inner parts, including the interior of the tubing itself — is heavily coated with zinc.







## MODERN, SPECIALLY DESIGNED PLANTS PROVIDE

Manufacturing
Engineering
Galvanizing
Warehousing
facilities
FOR ALL ROHN PRODUCTS

4 major plants covering a total of approximately 450,000 square feet provide the facilities for producing ROHN products. Modern mass production machinery is utilized throughout these specially designed facilities. Engineering and research departments are maintained in the tower plant to provide the highest possible quality, to check that rigid standards are maintained and to provide the best in design.

An impressive fleet of ROHN owned trucks means fast delivery service. Towers are shipped throughout the United States and Canada. ROHN manufactures a complete line of products which means fast, one-stop, one-order service.



## THE ROHN COMPANY

The Rohn Company is one of the pioneer manufacturers of TV towers. The line has been expanded to include heavy-duty communication and microwave towers, as well as a complete line of accessories and allied products. The Rohn Company is the only firm of its kind in the nation making such a full line of equipment of this type-the only manufacturer who has geared its research and engineering to the needs of the future. The line is "up to the minute" in design and in construction—the only one using modern, mass production techniques to improve quality and precision workmanship, yet lower costs. You can be sure of absolute superiority in the field with the ROHN line of fine products.

ROHN factory representatives are located worldwide. Call the one nearest you or write, phone or wire

ROHNtowers Designed and manufactured exclusively by

ROHN MANUFACTURING

Box 2000 Peoria, Illinois, U.S.A.

